



DISH Network

HDTV DVR Satellite Receiver

User's Guide

To subscribe to programming,
or for assistance with installing
or using the system,
call Customer Service at
1-800-894-9131

181744



Introduction	1
Receiver and Remote Control	2
Finding Programs to Watch	3
Pay Per View Programs	4
Favorites Lists	5
Locks	6
Interactive TV	7
Digital Video Recording	8
Record Future Programs	9
Remote Control Setup	10
Receiver Customization	11
Connections and Setup	12
Reference	R



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Receiver Customization	11
Connections and Setup	12
Reference	R

Warning and Attention Symbols

You must be aware of safety when you install and use this system. This *User Guide* provides various procedures. If you do some of these procedures carelessly, you could injure or kill yourself or damage equipment or property. Some other procedures require special attention.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For Your Safety



Do not try to open the case of the receiver. There is risk of electrical shock, which may cause damage to the receiver and/or personal injury or death to you. There are no user-serviceable parts inside the receiver. Opening the receiver case or making unauthorized changes will void the warranty.



Warning: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

Important Software Notice

As with all software controlled products, unexpected behavior could arise if the user tries to perform operations in a non-routine manner. This product, like almost any other high tech product, is subject to bugs and hence EchoStar CANNOT AND DOES NOT GUARANTEE OR WARRANT THAT ALL FEATURES, SUCH AS PARENTAL CONTROL, WILL WORK AS INTENDED UNDER ALL CIRCUMSTANCES. EchoStar endeavors to improve such conditions and will periodically download improvements.

In compliance with the terms of the GNU Public License (GPL), EchoStar is making some source code available to the public to download from www.echostar.com.

Equipment and Software Covered by this User’s Guide

This *User Guide* covers the ViP622 DVR and ViP722 DVR receivers, and software models ViP622 and ViP722. This *Guide* may cover other devices, not listed here.

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Please send comments or questions about this *User Guide* to: *Technical Publications, EchoStar Corporation, 94 Inverness Terrace East, Englewood, Colorado 80112.*

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Table of Contents

Important Safety Instructions	v
Introduction	1
WELCOME	2
HOW TO USE THIS GUIDE	2
ABOUT YOUR DISH NETWORK ACCOUNT	4
WATCHING TV NOW	5
ADDITIONAL SERVICES	7
ABOUT SATELLITE TV RECEPTION	7
WHY CONNECT TO A PHONE LINE OR BROADBAND	8
MOVING ON-SCREEN LOGO	8
Receiver & Remote Controls	11
SATELLITE RECEIVER OVERVIEW	12
DUAL AND SINGLE MODES	12
REMOTE CONTROL	15
SATELLITE RECEIVER FRONT PANEL	21
SATELLITE RECEIVER BACK PANEL	21
USING THE ON-SCREEN MENUS	22
USING TEXT FIELDS	23

Finding Programs to Watch25

- CHANGING CHANNELS26
- USING THE PROGRAM GUIDE26
- USING THE BROWSE BANNER28
- USING THEMES AND SEARCH29
- USING PICTURE-IN-PICTURE31

Pay-Per-Programs33

- PAY-PER-VIEW34
- DISH ON DEMAND34
- DISHONLINE35
- ORDERING CONSIDERATIONS35

Favorites Lists39

- WHAT ARE FAVORITES LISTS?40
- CREATING OR CHANGING FAVORITES LISTS41
- NAMING FAVORITES LISTS41
- USING FAVORITES LISTS41

Locks43

- WHAT ARE LOCKS?44
- CREATING OR CHANGING RATINGS LOCKS45
- CREATING OR CHANGING CHANNEL LOCKS48
- LOCKING OR UNLOCKING PAY-PER-VIEW CHANNELS .49
- HIDING ADULT CONTENT OR LOCKED CHANNELS49
- LOCKING OR UNLOCKING THE FRONT PANEL50
- CREATING OR CHANGING A PASSWORD51
- LOCKING AND UNLOCKING YOUR RECEIVER51

Interactive TV53

- DISHHOME INTERACTIVE TV54
- CUSTOMER SUPPORT54
- TIPS54

Digital Video Recording	55
WHAT IS DVR?	56
PAUSING A PROGRAM	56
REVERSE, FAST FORWARD, AND SKIP	57
SLOW MOTION AND FRAME-BY-FRAME	57
RECORDING A LIVE PROGRAM	58
PLAYING A RECORDED PROGRAM	58
USING RECORD PLUS	58
USING RECORD LINK	59
RECORDING WHILE WATCHING DIFFERENT PROGRAMS	59
RECORDING OPTIONS	62
GROUPING AND SORTING RECORDED PROGRAMS	62
Record Future Programs	63
TIMERS AND RECORDINGS	64
USING THE TIMERS LIST	67
USING THE DAILY SCHEDULE	67
SETTING UP AN AUTOMATIC TIMER	68
SETTING UP A MANUAL TIMER	68
SETTING UP A DISHPASS™ TIMER	69
DELETING A TIMER	70
Remote Control Setup	73
IMPROVING RECEIVER CONTROL	74
CONTROLLING OTHER COMPONENTS	78
THE RECOVER BUTTON	88
SENDING DISCRETE POWER ON AND OFF	89
Receiver Customization	91
USING SHARED VIEW	92
MODULATOR SETUP	92
USING MULTIMEDIA	93
USING CALLER ID	95

Table of Contents

CUSTOMIZING THE GUIDE AND CHANNEL LISTS	96
CHANGING LANGUAGES	98
USING CLOSED CAPTIONING	99
USING DOLBY® DIGITAL SURROUND SOUND	100
RESETTING TO FACTORY DEFAULTS	101
SCHEDULING RECEIVER UPDATES	101
INACTIVITY STANDBY	102
Connections and Setup	103
CONNECTING TO THE NEARBY TV (TV1)	104
CONNECTING TO THE REMOTE TVs (TV1 OR TV2) ...	107
CONNECTING TO YOUR DISH ANTENNA	110
CONNECTING THE PHONE LINE	111
CONNECTING A BROADBAND INTERNET CONNECTION	113
CONNECTING USING DISHCOMM	113
CONNECTING A VCR TO THE REMOTE TV	115
CONNECTING AN OVER-THE-AIR ANTENNA	116
USING TROUBLESHOOTING TOOLS	121
Reference	123
TROUBLESHOOTING TABLES	124
REMOTE CONTROL DEVICE CODES	137
Appendix	145
LIMITED WARRANTY	146
RESIDENTIAL CUSTOMER AGREEMENT	148
FCC COMPLIANCE	156



Important Safety Instructions

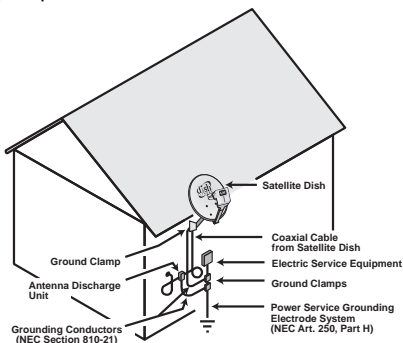
Safety

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with a dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Use only attachments/accessories specified by the manufacturer.
- 12 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 14 The power plug must be readily accessible so that the apparatus can be easily disconnected from the AC power.
- 15 Tighten all of the coaxial cable connections only by hand. If you use a wrench, you may overtighten the connections and damage your equipment.
- 16 The receiver is still connected to the AC power whenever it is plugged into a live power outlet, even if it is "turned off" (in standby mode) using a remote-control or front-panel POWER button.



Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus. Also, no sources of flame, such as lit candles, shall be placed on the apparatus.

Note to Satellite TV System Installer: This reminder is provided to call the satellite TV system installer's attention to Article 820-40 of the National Electrical Code (NEC) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.



- Operate the receiver using only the type of power source indicated on the marking label. Unplug the receiver power cord by gripping the power plug, not the cord.
- Do not overload wall outlets or extension cords; this can result in a risk of fire or electrical shock.
- Never insert objects of any kind into the receiver through openings, as the objects may touch dangerous voltage points or short out parts. This could cause fire or electrical shock.
- Do not locate the antenna near overhead light or power circuits, or where it can fall into such power lines or circuits. When installing the antenna, take extreme care to avoid touching such power lines or circuits, as contact with them can be fatal.
- Do not attempt to service the receiver yourself, as opening or removing covers may expose you to dangerous voltage, and will void the Limited Warranty. Refer all servicing to authorized service personnel.

Proper Care of Your Equipment

- Always handle the satellite receiver carefully. Excessive shock and vibration can damage the hard drive.
- Unplug the receiver from the AC power outlet before cleaning.
- Always turn the receiver off, unplug it and let it sit for at least 30 seconds before moving it.
- The use of accessories or attachments not recommended by the receiver manufacturer will void the Limited Warranty.
- Do not place the receiver in an enclosure (such as a cabinet) without proper ventilation.
- Do not stack the receiver on top of or below other electronic devices as this can cause heat build-up and vibration.
- Do not install the receiver in any area where the temperature can be less than 40°F or more than 113°F. If the receiver is cold to the touch, do not plug it in immediately. Let it sit unplugged at room temperature for at least 45 minutes before plugging it in.
- Use an outlet that contains surge suppression or ground fault protection. During an electrical storm or when the receiver is left unattended and unused for long periods of time, unplug the power cord from the wall outlet, disconnect the lines between the receiver and the antenna, and disconnect the telephone line. This will provide additional protection against damage caused by lightning or power line surges.



On some TVs, the presence of fixed images for extended periods of time may cause them to be permanently imprinted on the screen. Consult your TV user guide for information on whether this is a problem for your TV, what operating/viewing restrictions apply to avoid this problem, and associated TV warranty coverage

Introduction



Chapter

Introduction to DISH Network Services

What you'll find in this chapter:

- **WELCOME**
- **HOW TO USE THIS GUIDE**
- **ABOUT YOUR DISH NETWORK ACCOUNT**
- **WATCHING TV NOW**
- **ADDITIONAL SERVICES**
- **ABOUT SATELLITE TV RECEPTION**
- **WHY CONNECT TO A PHONE LINE OR BROADBAND**
- **MOVING ON-SCREEN LOGO**

WELCOME

Thank you for choosing DISH Network. You are about to experience the excitement and convenience of our Direct Broadcast Satellite (DBS) service, which delivers the very best picture and sound quality. DISH Network consistently provides the latest products and satellite-delivered services—with high performance, ease of operation, and a wide variety of entertainment options.

Your new DISH Network Digital Video Recorder (DVR) receiver has three tuners (two satellite and one over-the-air) for recording and playback in standard or high definition. Additionally, the DVR features and a host of other functions make it one of the most versatile and exciting devices in home entertainment.

This satellite receiver lets you decide how you watch TV. You can record and play back audio and video with full digital quality. You can pause a live program and not miss any of the action, or you can record a program to watch later without a VCR.

HOW TO USE THIS GUIDE

This section explains how the guide is divided and the conventions used throughout.

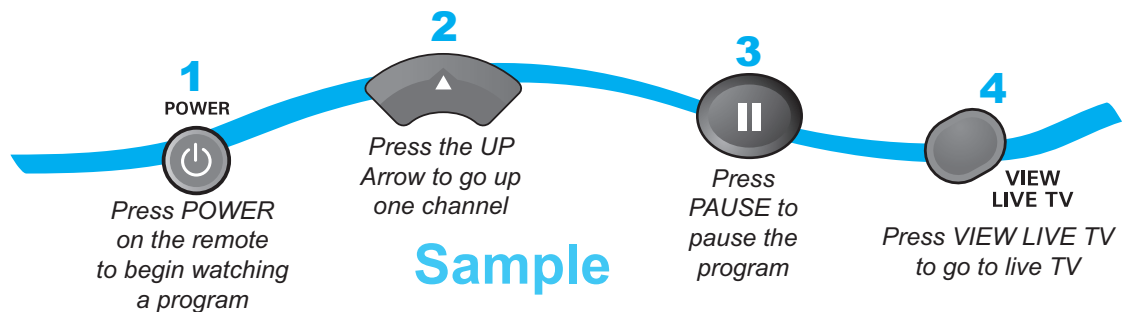
Guide Overview

The information in this guide is separated into several chapters to make it easy for you to find exactly what you're looking for:

- *Chapter 1: Introduction* gives you a brief overview of DISH Network and your new receiver.
- *Chapter 2: Receiver & Remote Controls* explains the basic features of your system and how to use the remote controls, front panel buttons, and back panel connections.
- *Chapter 3: Finding Programs to Watch* describes how to change channels and look for programs.
- *Chapter 4: Pay-Per-Programs* shows you how to order and watch Pay-Per-View and DISH On Demand programs.
- *Chapter 5: Favorites Lists* explains how to create, name, and use favorites lists.
- *Chapter 6: Locks* explains how to set locks and passwords for parental controls.
- *Chapter 7: Interactive TV* describes how to use the Dish**HOME** Interactive TV features of your satellite TV system.
- *Chapter 8: Digital Video Recording* explains how to use the recording features of your satellite TV receiver to maximize your viewing pleasure.
- *Chapter 9: Record Future Programs* shows you how you can record and play back your favorite programs when you want to watch them.
- *Chapter 10: Remote Control Setup* contains instructions for programming your remote to control your satellite receiver and equipment like a TV or a VCR/DVD player.
- *Chapter 11: Receiver Customization* shows you how to customize your new receiver.
- *Chapter 12: Connections and Setup* explains how to connect your satellite receiver to your TV, as well as to other audio-video equipment, such as a VCR.

Guide Conventions

- The names of remote control buttons are all in capital letters.
Example: Press SAT.
- Select means to move the highlight to an on-screen option or choice in a menu list and then press the SELECT button on the remote control.
Example: Select the **Locks** option.
- This guide uses HD to refer to high definition and SD to refer to standard definition.
- Where this guide mentions nearby TV, it is referring to TV1, the TV nearest the receiver. The nearby TV receives TV1 menus and programming from the receiver's TV1 outputs and is directly connected using short audio/video cables.
- Where this guide mentions remote TV, it is referring to TV2, one or more TV(s) located away from the receiver, often in other rooms. The remote TV receives TV2 menus and programming from the receiver's TV2 outputs through your in-home cable system.
- Where this guide mentions remote control, it refers to either Remote Control 1 when viewing a nearby TV or Remote Control 2 when viewing the remote TV(s). If a specific remote control must be used, this guide will refer directly to Remote Control 1 or Remote Control 2.
- The instructions in this guide are shown in two ways:
 - Instructions in the form of pictures are handy if you'd like to learn something quickly. These instructions are numbered left to right as shown in the sample below.
 - Instructions that are written out are helpful if you'd like to learn more details.

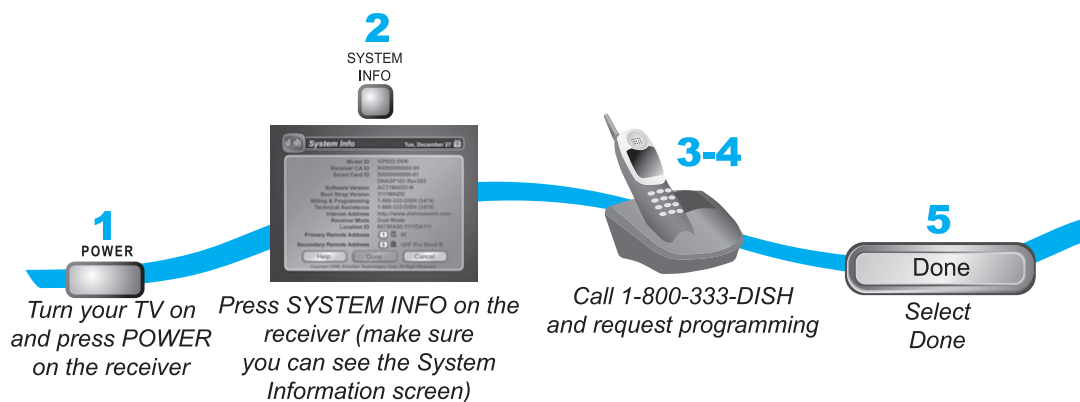


ABOUT YOUR DISH NETWORK ACCOUNT

This section describes how to order your packages and provides information on how to find information about your DISH Network account.

Ordering Your Programming Packages

Before you can enjoy your new receiver, order your programming packages.



- 1 Press **POWER** on the front panel to turn on the receiver.
- 2 Press **SYSTEM INFO** on the front panel to display the receiver's System Information menu on the nearby TV screen.
- 3 Call 1-800-894-9131 and tell the Customer Service Center representative that the system has been installed and you would like to begin receiving services. A representative will explain the available programming packages. Give the representative information from the System Information screen displayed on the nearby TV, as requested.
- 4 The representative will send a signal via the satellite to activate your services. This process usually takes just a few minutes.
- 5 If the System Information menu screen is still displayed, select **Done**.

Where to Find Information on Your Account

If you want to know about charges to your DISH Network account or if you would like to make changes to your programming packages, be sure to have your account information handy and choose one of the following:

- Go to our website at www.dishnetwork.com/my_account
- Press **MENU** on your remote control and then select **Customer Support**.
- Call the Customer Service Center for DISH Network at 1-800-894-9131.

Note: Additional authorization may be required before certain certain types of programs and/or optional over-the-air broadcasts can be viewed; certain additional fees may apply.

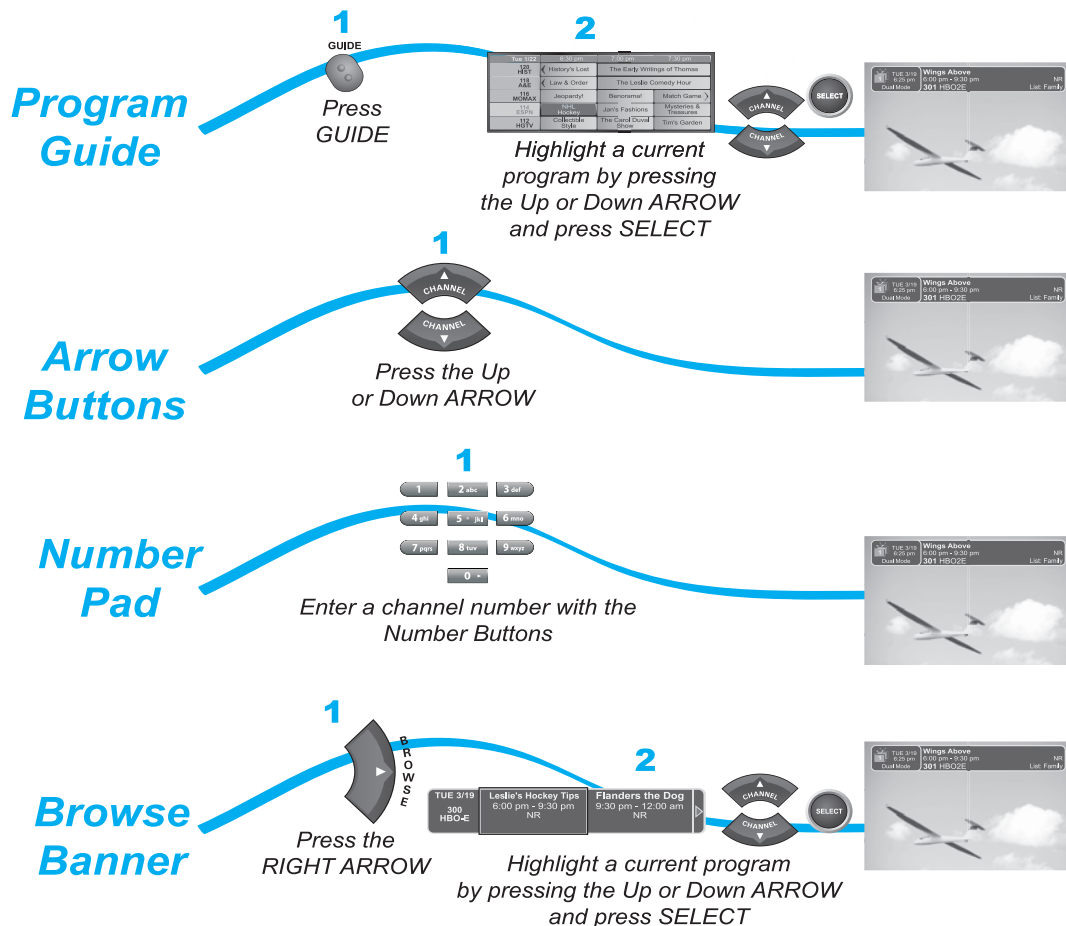
WATCHING TV NOW

After you have ordered your programming package, you can begin enjoying the features of your new satellite TV receiver. When you complete these simple tours, you'll be familiar with the remote control and be able to find a program to watch, pause live TV, and record your favorite shows.

Finding a Program to Watch

If you want to know more about watching TV, see *Chapter 3: Finding Programs to Watch* starting on page 25.

4 Ways to Find a Program

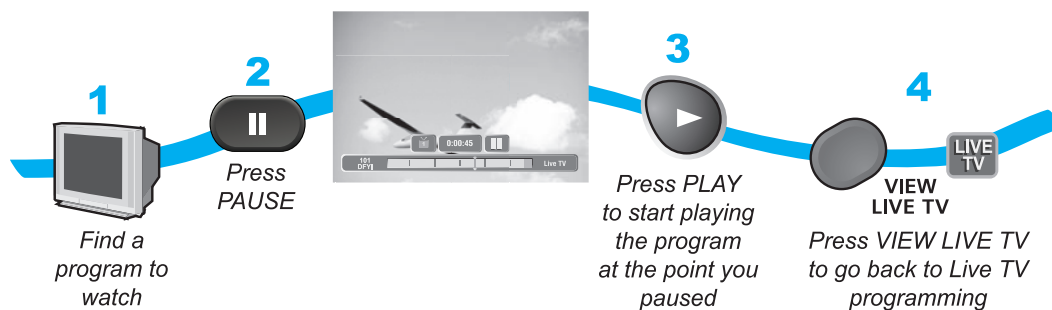


Chapter 1

Watching TV Now

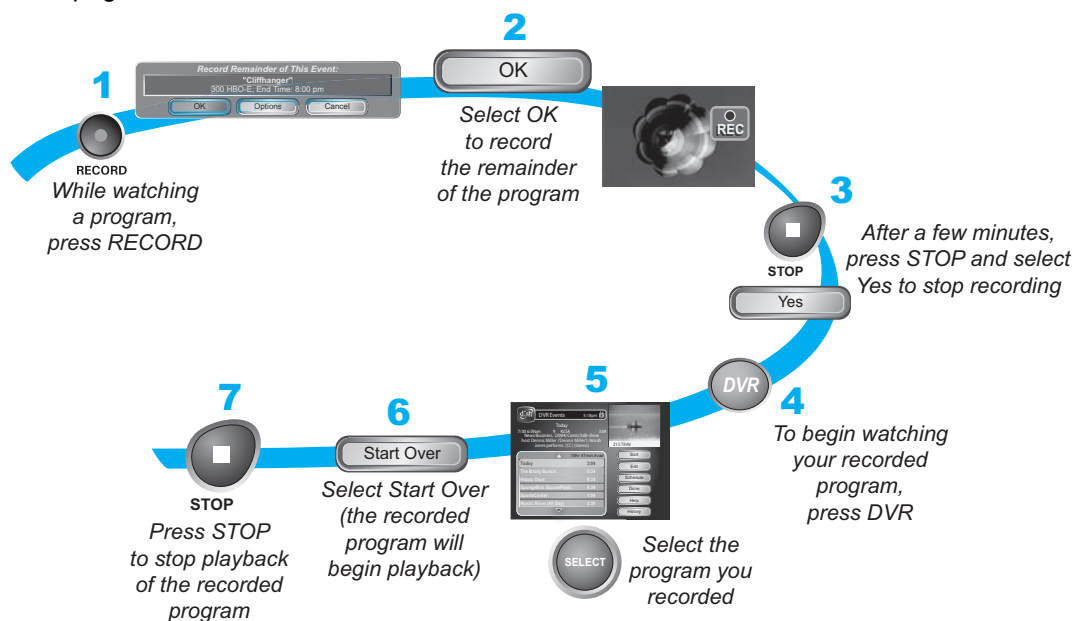
Pausing Live TV

Here's something you can't do with regular old TV: pause live TV because someone's at the door or calling you on the phone or there's something you just have to do right now. For more about the pause feature of your receiver, see *Pausing a Program* on page 56.



Recording and Playing Back a Program

Take this tour to learn how to make basic recordings of your favorite shows. For more about the DVR features of your receiver, see *Chapter 8: Digital Video Recording* starting on page 55.



ADDITIONAL SERVICES

Pay-Per-View

Catch all the action on Pay-Per-View. Take a break from regular TV and order the latest movies, sports, and special events. For details on ordering Pay-Per-View events, see page 34. Be sure to connect an active telephone line to your receiver before you order a Pay-Per-View event (see the instructions on page 111).

DISH On Demand

Enjoy movies and other programming any time without schedules, without waiting and without leaving your home.

DishONLINE

DishONLINE lets you download movies and other programs to the satellite receiver if it is connected to a broadband Internet connection. For steps to connect your satellite receiver to the Internet, refer to *Connecting a Broadband Internet Connection* on PAGE XXX. For steps to order DishONLINE programs, refer to *DishOnline.com* on PAGE YY. For more information, go to dishnetwork.com/dishonline.

DishHOME

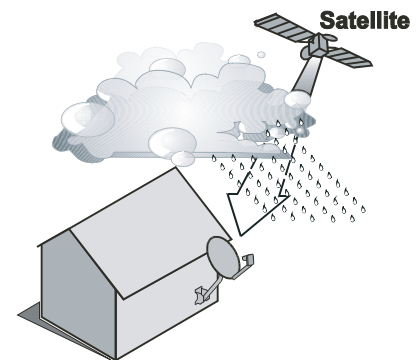
At DishHOME (press DISH on your remote control), you'll find news, sports, weather information, TV and movie buzz, customer service, games, and more.

ABOUT SATELLITE TV RECEPTION

Satellite television uses satellites in a stationary orbit over the Earth to deliver television and audio programming. This type of orbit enables the satellites to stay aligned over one place on the surface of the Earth. Once the satellite dish is aimed at the satellite, the dish does not have to move to follow it.

Rain and Snow Fade

Heavy rain, snow, or dense cloud cover can reduce the satellite signal, which may interrupt your programming service. Your service will return after the weather condition has passed. Aiming the satellite dish to get the strongest signal during installation, will help prevent rain and snow from interrupting the signal.



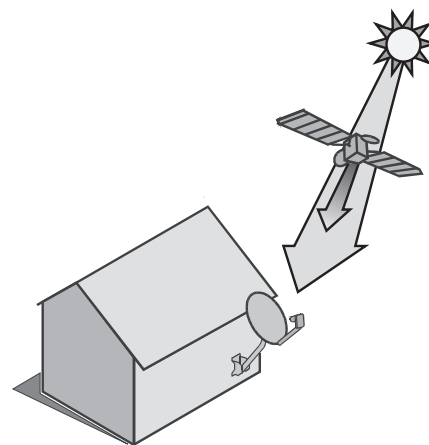
Chapter 1

Why Connect to a Phone Line or Broadband

Solar Interference

Twice a year, the sun moves to a position behind the DISH Network satellites as they orbit the Earth. This event occurs during a few days at the beginning of the spring and the beginning of the autumn and lasts only a few minutes.

During these brief periods, you will not be able to see programs on DISH Network. When the sun moves from behind the satellites, the programs will reappear. This is an unavoidable natural event and has an adverse effect on many satellite providers.



WHY CONNECT TO A PHONE LINE OR BROADBAND

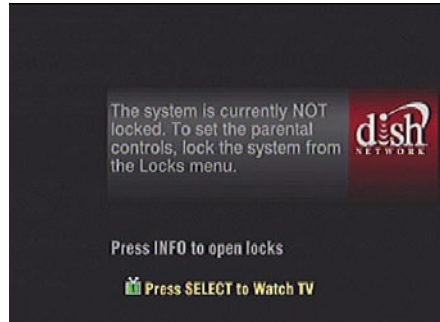
Your satellite receiver is equipped with a standard telephone jack that you use to connect to an active telephone line. Keep the receiver connected to an active telephone line so that you will be able to order pay-per-view programs using your remote control, use all of the Dish**HOME** Interactive TV features, and other services from DISH Network (see the instructions on page 111). A connected phone line also supports the Caller ID feature of your ViP-series receiver (see the instructions on PAGE ZZ).

Your satellite receiver can be connected to your broadband home network. Currently this connection allows you to order additional content not usually available through your satellite subscription, and you can order pay-per-view programs using your remote control (if you do not connect a phone line to your receiver). See the connection instructions on , and more information about Dish**ONLINE** on PAGE YY.

MOVING ON-SCREEN LOGO

Whenever the receiver is turned off using the remote control or front panel **POWER** button, you will see the DISH Network logo and helpful tips on your TV screen. This feature is included with your receiver to assure you that the connections between your receiver and TV(s) are not lost, and also provides useful information about your receiver and its features. Press **POWER** or **SELECT** on the remote control to resume watching

satellite TV programming. Make sure you are using the correct remote for your TV-viewing location (see page 12 for details).



TIPS

- **Always have the latest software**—Press POWER to turn off the the receiver when you're not using it. This way, the satellite can send updated software and guide data.
- **Order Pay-Per-View programs and events with your remote control**—Keep an active telephone line connected to the receiver. Not only will you have Pay-Per-View ordering at your fingertips, but you'll also avoid any unnecessary charges.



QUESTIONS

- **How do I find something to watch?** Refer to page 5. For more information on finding something to watch, see *Chapter 3: Finding Programs to Watch*.
- **Why are some of the channels red in the Program Guide?** The channels that are red in the Program Guide are those which are not currently in your subscription. If you'd like to watch those channels, call 1-800-894-9131 or go to the website at: www.dishnetwork.com.
- **I'm looking at program information in a guide I bought at the grocery store, but nothing matches what's on my DISH Network receiver, is something wrong?** No, nothing's wrong. DISH Network programming data may vary from what you'll find in a local TV publication. For best results, use the Electronic Program Guide (EPG) on your receiver, or you can order *DISH Entertainment Magazine*.

Chapter 1

Questions

Notes

Receiver & Remote Controls



Chapter

2

About Your Satellite Receiver

What you'll find in this chapter:

- **SATELLITE RECEIVER OVERVIEW**
- **DUAL AND SINGLE MODES**
- **REMOTE CONTROL**
- **SATELLITE RECEIVER FRONT PANEL**
- **SATELLITE RECEIVER BACK PANEL**
- **USING THE ON-SCREEN MENUS**
- **USING TEXT FIELDS**

SATELLITE RECEIVER OVERVIEW

This section gives you an overview of your DISH Network satellite TV receiver system.

Satellite Receiver

This dual satellite-tuner receiver with integrated digital video recorder can view/record standard-definition (SD) and high-definition (HD) DISH Network programming on two TVs or view/record over-the-air digital/HD broadcasts on the nearby HDTV.

- **Nearby TV (TV1)**—Connect to an HDTV to view SD and HD DISH Network programming and over-the-air digital/HD broadcasts. Programming from the receiver is delivered directly to the nearby TV using short audio/video cables.
- **Remote TV(s) (TV2)**—Connect to an SDTV to view SD and down-converted HD broadcasts. Programming from the receiver is usually delivered to the remote TV(s) using your existing in-home coaxial cable.

Remote Controls

Two remote controls come with your receiver:

- **Remote Control 1**—An Infrared (IR) remote to control programming for the nearby TV (TV1). This remote control is labeled with a green number 1, which matches similar markings on the receiver output connections and the menus for the nearby TV.
- **Remote Control 2**—An Ultra-High Frequency Pro (UHF Pro) remote to control programming at a remote TV (TV2). This remote control is labeled with a blue number 2, which matches similar markings on the receiver output connections and the menus for the remote TV. Be sure to set up the remote control to operate the receiver (see page 75).

DUAL AND SINGLE MODES

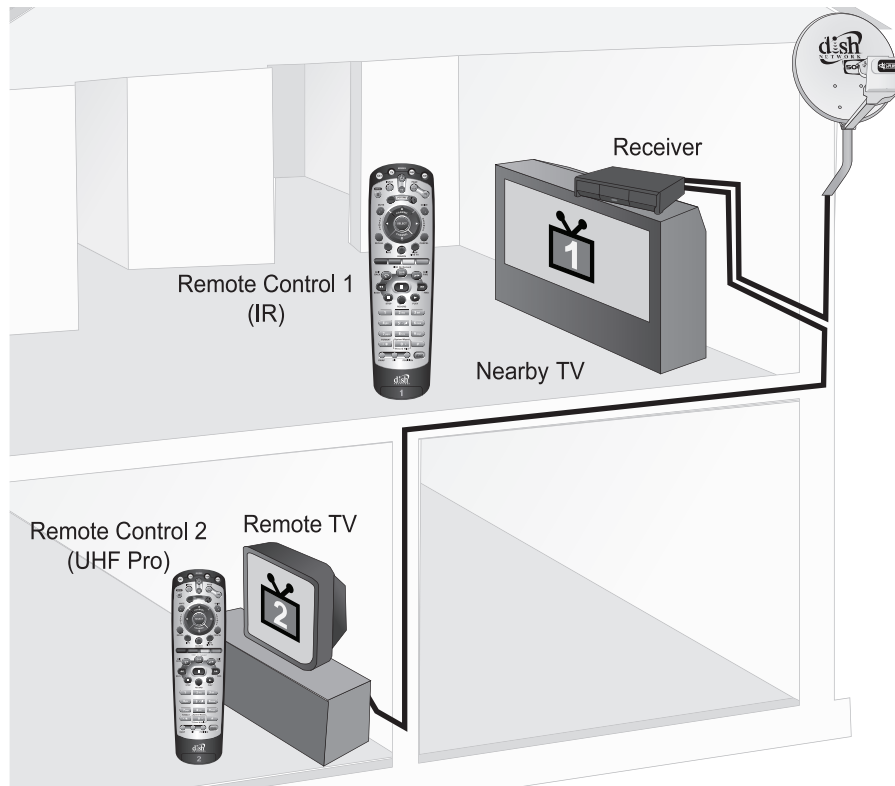
Your satellite receiver includes two modes of operation: Dual and Single. These different modes increase your entertainment options, because you'll be able to choose how and where you watch and record your favorite programs.

Dual Mode

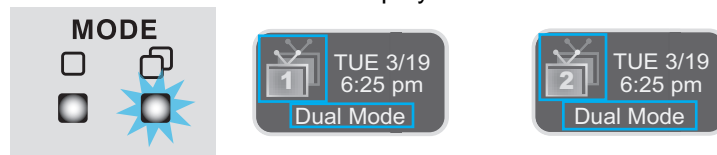
While in Dual Mode, you can use this dual satellite-tuner receiver to watch different programming in two separate locations:

- **Nearby TV**—Programming from the receiver is delivered directly to the TV near the receiver using short audio/video cables and is controlled using Remote Control 1. The nearby TV is also referred to as "TV1."
- **Remote TV**—Programming from the receiver is delivered to a TV located in another room using existing in-home coaxial cable, and is controlled using Remote Control 2.

The video displayed on the remote TV is always in standard definition (SD). High-definition satellite programming can be viewed on the remote TV; however, it is down-converted for viewing on the remote TV. The remote TV is also referred to as "TV2."



You can tell your receiver is in Dual Mode because the front-panel mode indicator will light and the menu and other screens will display Dual Mode in the corner (as shown below).

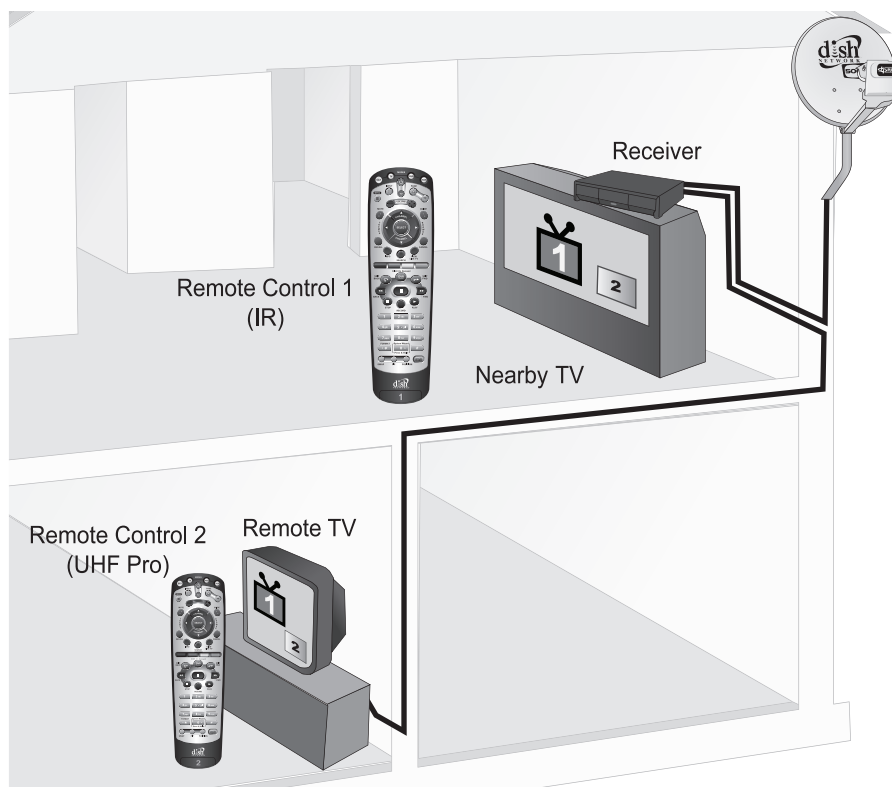


Chapter 2

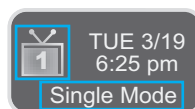
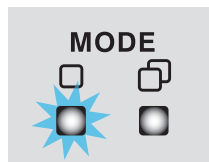
Dual and Single Modes

Single Mode

Single Mode provides dual satellite-tuner receiver features—like Picture-in-Picture (PIP) and the ability to watch one live program while recording another—to connected TVs.





Single Mode delivers the same programming to all of the TVs connected to the satellite receiver and allows control by either remote control. The format of the programming shown on the remote TV(s) is standard-definition (SD); high-definition (HD) is shown only on the nearby TV. High-definition programming can be viewed at either TV location; however, it is down-converted for viewing on a remote TV. You can tell you are in Single Mode because the front panel mode indicator will light and the menus and other screens will display Single Mode in the corner (as shown below).



Switching Between Dual and Single Mode

Put the satellite receiver in Single or Dual Mode by pressing the front-panel MODE button. Keep the following things in mind when switching the satellite receiver between Dual and Single Mode:

	 Dual Mode	 Single Mode
Indications	Dual Mode front panel indicator lights.	Single Mode front panel indicator lights.
Recording	The Recording front-panel indicator lights to show whether TV1, TV2, or both are currently recording.	The TV1 Recording front-panel indicator lights when you are recording from one or both tuners.
Favorites Lists	Favorites Lists set up for both outputs (TV1 and TV2) are available.	Only Favorites Lists set up for TV1 are available. The lists for TV2 are not lost, they are simply unavailable while in Single Mode.
Locks	Locks set up for both outputs (TV1 and TV2) are available.	Locks set up for only TV1 are available. The locks for TV2 are not lost, they are simply unavailable while in Single Mode.
Closed Captioning	Closed Captioning (CC) from SD and HD programming is available on TV1. CC from only SD programming is available on TV2 (CC also must be enabled on the TV itself).	Closed Captioning from the receiver is available on both outputs (TV1 and TV2).

Note: If someone is viewing the remote TV(s) while the receiver is in Dual Mode, you will see a pop-up message screen on the nearby TV, warning you that you are about to disrupt the use of the TV2 outputs.

REMOTE CONTROL

The two remote controls give you access to all the features of your dual satellite-tuner receiver. You can set up each remote to control the satellite receiver and up to three other devices (see page 78). These devices can be a TV, a VCR or DVD player, and a third (AUX) device.

This section describes how to use the various features on the two types of remote controls included with your satellite TV system.

Types of Remote Controls



Remote Control 1 uses infrared (IR) signals to:

- Control TV1 menus for the nearby TV in Dual Mode.
- Control the satellite receiver in Single Mode.

IR signals travel only short distances (60 feet or less), and cannot go through walls or other solid objects. You must point the remote control directly at the receiver, with no objects blocking the line of sight.

Remote Control 1 uses IR signals to control both the receiver and any other devices that it has been programmed to operate.

This remote control is identified by the green number 1 at the bottom of the front of the remote control.



Remote Control 2 uses UHF Pro signals to:

- Control TV2 menus for the remote TV(s) in Dual Mode.
- Control the satellite receiver in Single Mode.

UHF Pro signals travel long distances and go through walls and other solid objects.

To use Remote Control 2 to control the receiver, you must attach the remote-control antenna to the jack on the receiver's back panel (see page 17).

Remote Control 2 uses IR signals to operate any other devices that it has been programmed to operate. You must point the remote control directly at these devices, with no objects blocking the line of sight.

This remote control is identified by the blue number 2 at the bottom of the front of the remote control.

Remote Control Batteries

The remote control comes with four AAA-sized batteries. When you replace old batteries, you should replace all the batteries. Use batteries of the same type, for example, all alkaline or carbon zinc. Don't mix batteries of different chemistries. Alkaline batteries last longer than carbon zinc.

- 1 Press down on the top of the battery cover and slide the cover off.
- 2 Take out all old batteries.
- 3 Put new batteries in. Make sure you match the plus (“+”) ends with the plus markings on the battery case.
- 4 Slide the cover back into place.



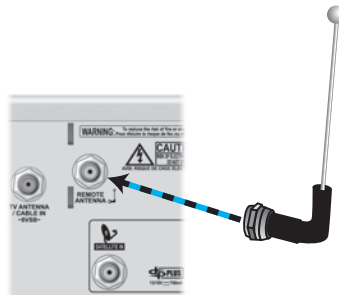
Low Battery Warning

When you see a low-battery warning message on your screen just below the top Program Banner, the batteries in your remote control are weak and need to be replaced.




Attach the Remote Antenna

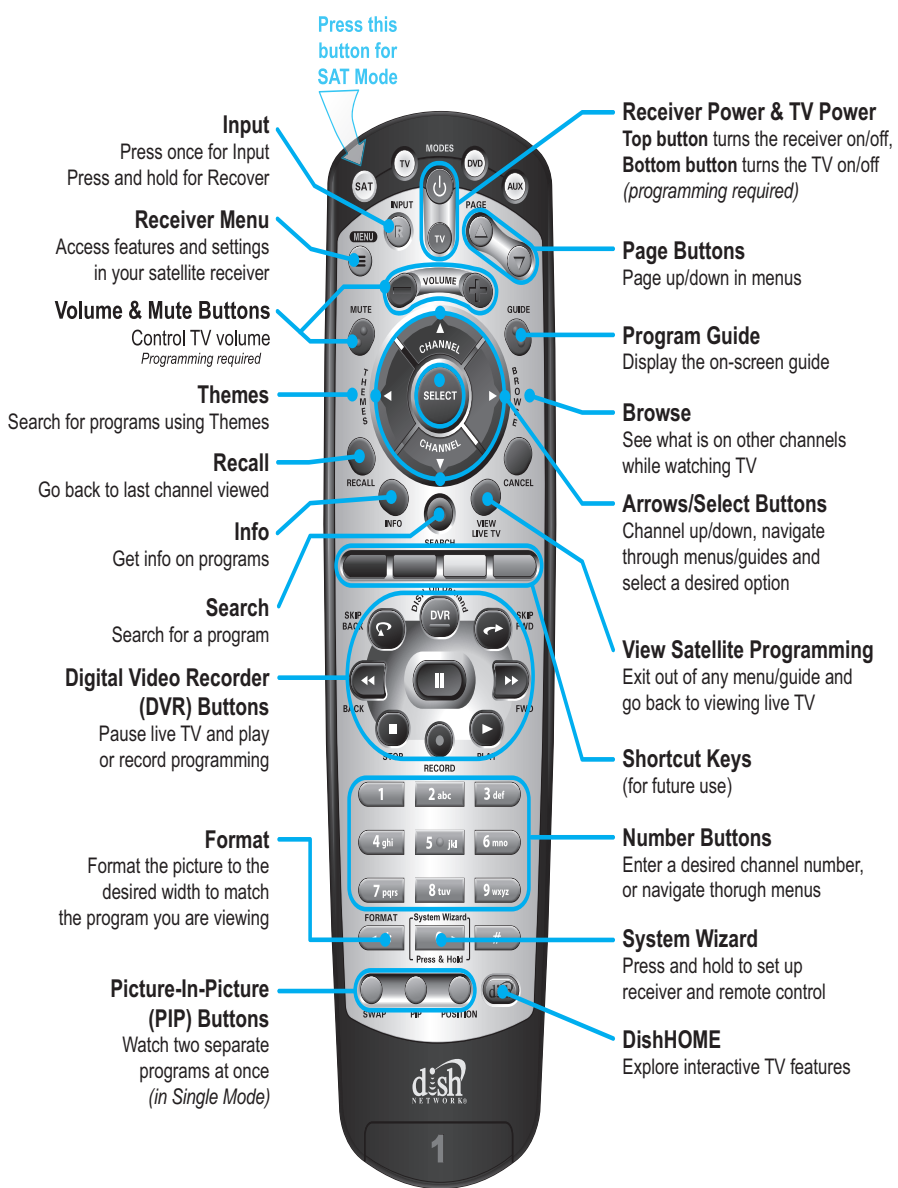
Attach the remote-control antenna to the receiver's back panel **REMOTE ANTENNA** input jack so that you can use your UHF Pro Remote Control 2. Without the remote-control antenna properly attached, you cannot use the UHF Pro remote to control the receiver. See *Adjusting the Remote Control Antenna* on page 76 for more detailed information about improving the performance of your UHF Pro Remote Control 2.




Remote Control Buttons

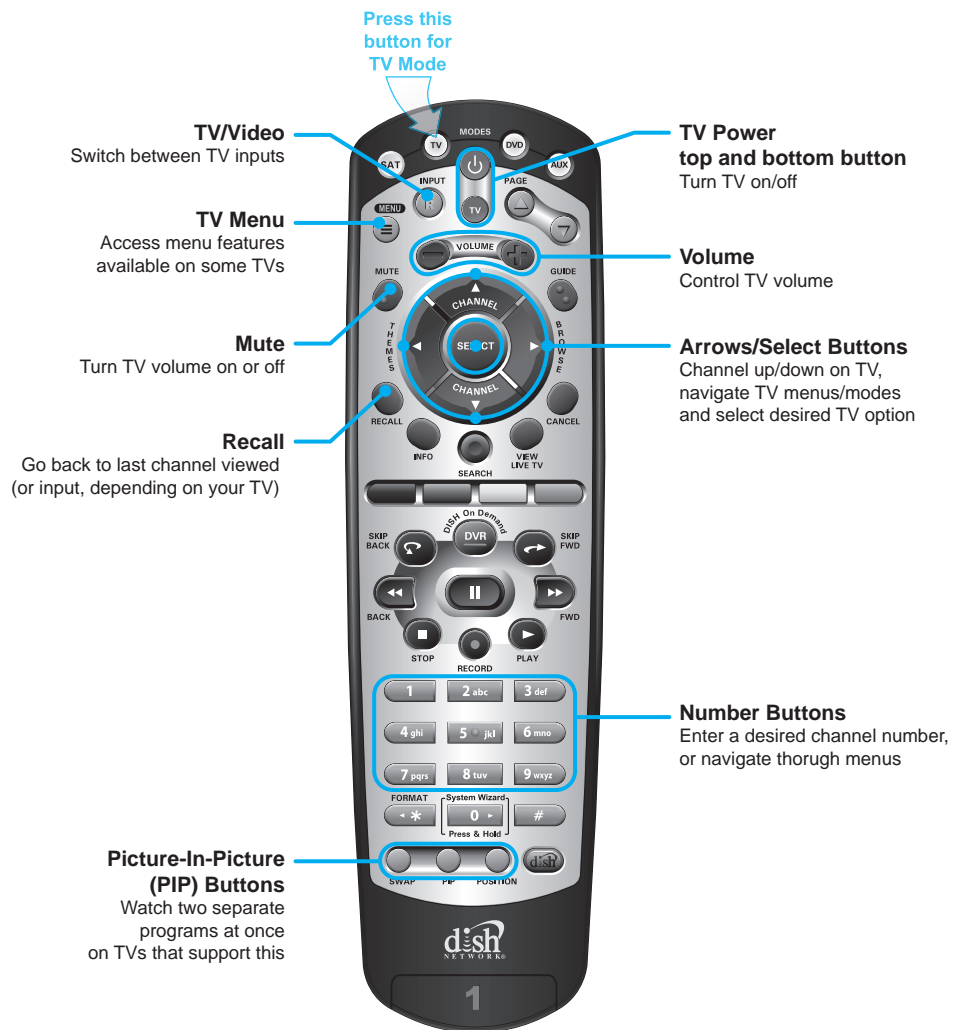
SAT Mode

To use the features described in this section, make sure you are in SAT mode by pressing the SAT Mode button. 



TV Mode

To use the features described in this section, make sure you are in TV mode by pressing the TV Mode button.  Remote programming is required.




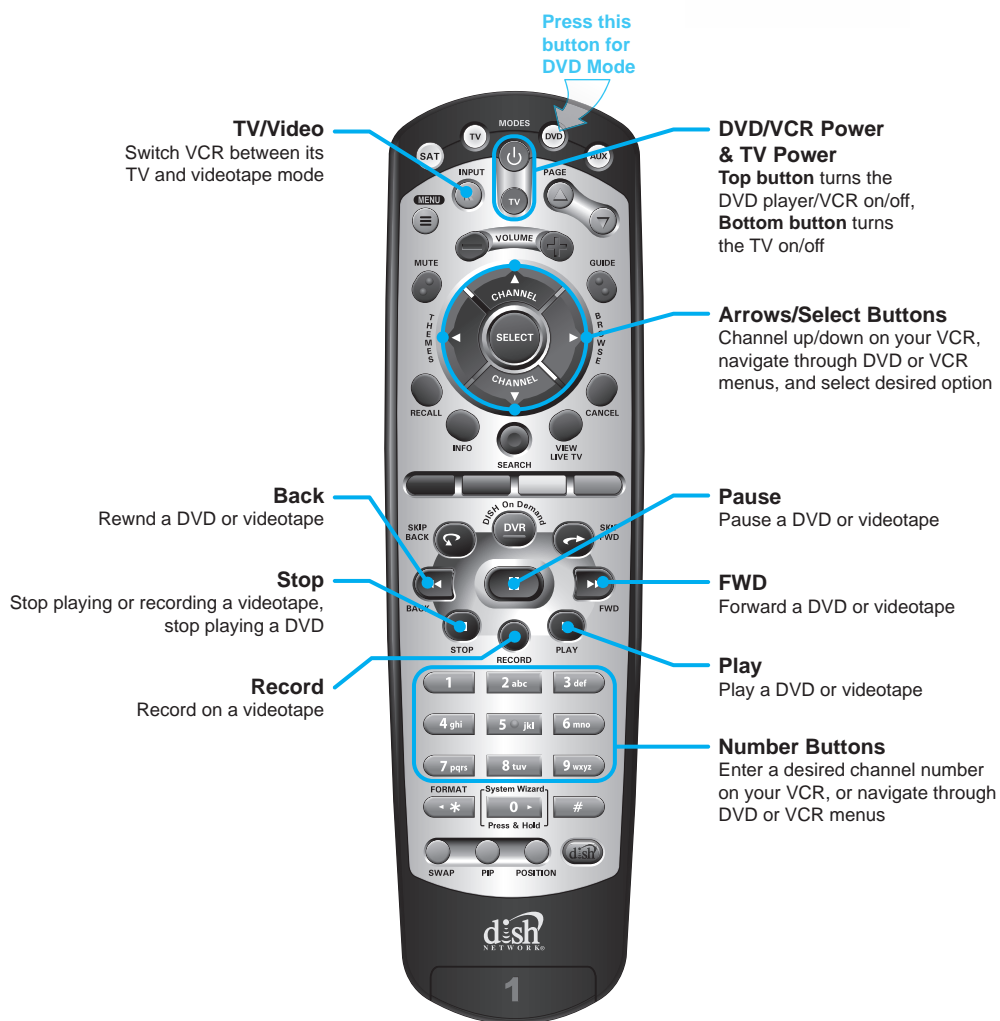
Note: Remote operation is different on DISH Network TVs. See your DISH Network TV User's Guide for proper operation.

Chapter 2

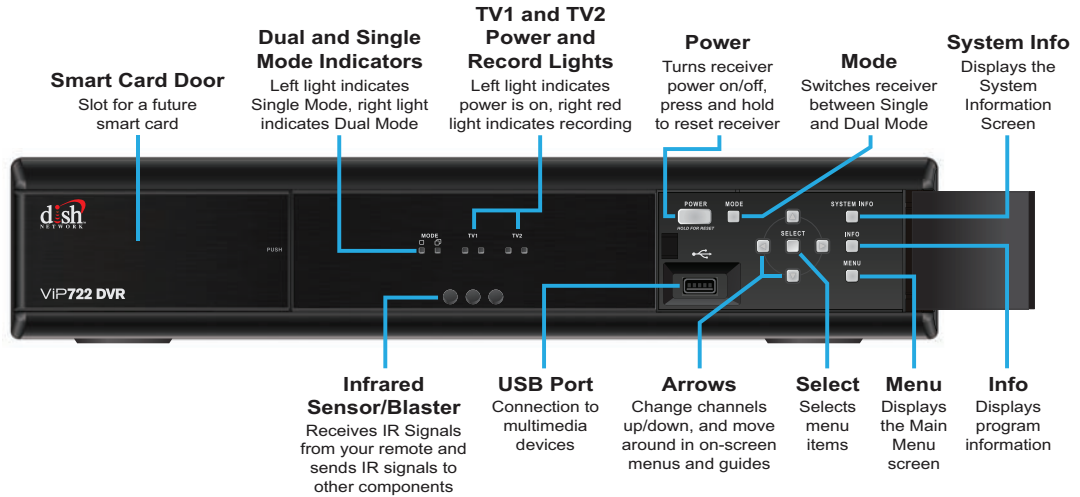
Remote Control

VCR Mode

To use the features described in this section, make sure you are in DVD mode by pressing the DVD Mode button.  You can also use this mode to operate a VCR instead of a DVD player. Remote programming is required.

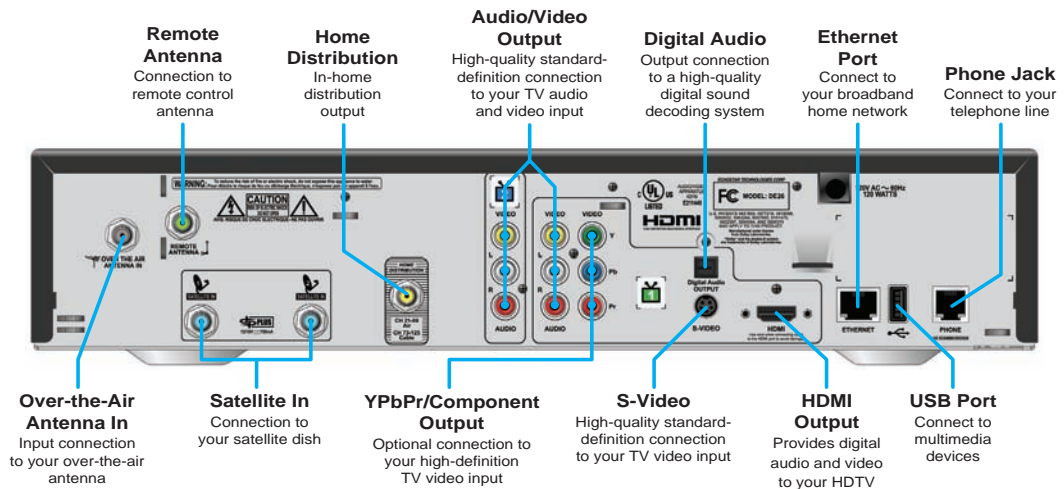


SATELLITE RECEIVER FRONT PANEL



Note: Your receiver may look slightly different than the unit shown above.

SATELLITE RECEIVER BACK PANEL



Note: Your receiver may look slightly different than the unit shown above.

USING THE ON-SCREEN MENUS

The menus make using the receiver and selecting programs quick and easy. Use the menus to control the receiver and to use its features, such as setting parental controls and locks, choosing a program to watch, or creating a Favorites list.

Open and Close Menus

You can open the menus in either of two ways:

- Press the MENU button on the receiver front panel or remote control to open the Main Menu, then access any of the other menus from the Main Menu.
- Use the following buttons on the remote control:
 - Press GUIDE to open the Program Guide.
 - Press THEMES (LEFT ARROW) when watching a program to open the Themes and Search menu.
 - Press BROWSE (RIGHT ARROW) to display the Browse Banner.

To close a menu screen and return to watching a program, press VIEW LIVE TV.

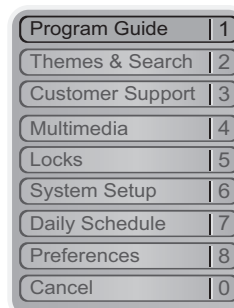
Highlighting Menu Options

Use the remote control ARROWS to move the on-screen highlight to the menu option. When you move the on-screen highlight, the name of the menu option becomes orange.

Selecting Menu Options

When you select a menu option, that option takes effect right away. You can select a menu option in either of two ways:

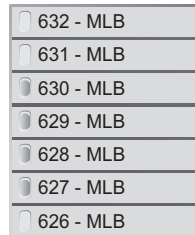
- Move the highlight to the menu option using the remote control ARROWS. Then press the SELECT button. In the example, the option for the **Program Guide** is highlighted.
- If the option has a number next to it, press the matching number button on the NUMBER PAD of the remote control. When you use the NUMBER PAD, your choice both highlights and selects the option; you do not need to move the highlight to the option first.



List of Choices in the Menus

When you make a choice in a list, the receiver does not apply the change until you select **Save** or **Done** on the screen. If you do not want to save any changes you have made on the screen, then select **Cancel** to discard them. There are two types of lists:

- A single choice list allows you to select only one choice at a time. If you select another choice, your previous choice is deselected.
- A multiple choice list allows you to select more than one choice at one time. If you select another choice, your previous choice(s) also stays selected. To deselect a choice, select it again.



Canceling a Procedure

You can cancel a procedure in any of three ways:

- If you want to return to watching a program, press the remote's VIEW LIVE TV button.
- If you want to return to the previous menu, press the remote's CANCEL button.
- Wait a few moments and the menu will timeout and close automatically, discarding any changes you have made on the screen.

USING TEXT FIELDS

When you use some of the features on your receiver, you might be required to enter information, such as the name of a movie when using the Search feature, into areas on the screen called text fields. There are two basic ways for you to enter this information:

- Using the On-Screen Keyboard
- Pressing the remote-control NUMBER PAD buttons

Using the Virtual Keyboard

Use the virtual keyboard letters and numbers to type in the information. Use the LEFT, RIGHT, UP, and DOWN ARROWS to navigate around the keyboard on screen. Press SELECT to choose each character.



Using the Number Pad

Use the letters printed with the NUMBER PAD digits on the remote control—just like on some phones—while the highlight is in the field. For example, when looking for the channel and times to watch *Rudy Friml Presents*, you press the 7 button three times for an R, the 8 button two times for a U, 3 one time for a D, and 9 three times for a Y, to type in the word "Rudy."



While in the Text Field

When the cursor is in the text field:



- Press the LEFT ARROW to delete characters.



- Press FORMAT(*) to backspace without deleting characters.



- Press 0 to enter a blank space, such as between words.



- Use the RIGHT ARROW to forward space without deleting characters.



QUESTIONS

- **Why put the receiver in Single Mode?** When the receiver is in Single Mode, you can use the PIP functions.
- **How can I watch and use the DVR functions on the same program on all of the TVs in my house?** Put the receiver in Single Mode (page 15) and then enable Shared View (page 92).



TIPS

- You can use the Front Panel Locks to prevent the mode from being changed accidentally. See page 51 for instructions on how to use this feature.
- To turn off the TV2 outputs, you must press the POWER button on Remote Control 2.
- When the receiver is in Dual Mode, use Remote Control 1 to control TV1 menus on the nearby TV; use Remote Control 2 to control TV2 menus on the remote TV(s).
- If you would like to put the receiver in a remote location (such as inside a closet or cabinet), be sure to get the replacement remote control that uses UHF Pro signals (instead or in addition to IR) to control TV1. Call your DISH Network retailer or go to www.dishnetwork.com, select Technology, and then click on Remotes & Accessories.
- To use Remote Control 2, be sure to attach the Remote Control Antenna to the connection on the back of your receiver. See page 17 for more details.
- On Remote Control 2, press the FORMAT(*) button to change the aspect ratio (image shape displayed) for any HD programming being shown on the remote TV(s).

Finding Programs to Watch



Chapter

3

Watching TV

What you'll find in this chapter:

- **CHANGING CHANNELS**
- **USING THE PROGRAM GUIDE**
- **USING THE BROWSE BANNER**
- **USING THEMES AND SEARCH**
- **USING PICTURE-IN-PICTURE**

Chapter 3

Changing Channels

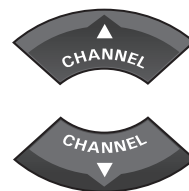
CHANGING CHANNELS

There are two basic ways to change the channel on your satellite TV receiver:

- Use UP and DOWN ARROWS on your remote control
- Enter a channel number with the NUMBER PAD buttons

Using the Up and Down Arrows

While watching live TV, if you want to change the channels one at a time to see what's on, press the UP and DOWN ARROWS on your remote control. You can also change the channels the same way using the UP and DOWN ARROWS on the receiver front panel.



Entering a Channel Number

While watching live TV, if you know the specific channel you want to watch, enter the channel number using the NUMBER PAD buttons on the remote control.



USING THE PROGRAM GUIDE

You can use the Program Guide to see what programs are on, to change channels, and to set up timed recordings. To access the guide, press the GUIDE button on the remote.

Active Favorite List

The screenshot shows a TV program guide interface. At the top, it displays "List: Family" and "12:25 pm Wed 12/03". The current program is "NHL Hockey" on "114 ESPN" from 6:30 pm to 7:00 pm NR. Below this is a grid of programs for "Thu 12/04". The grid shows programs like "History's Lost", "The Early Writings of Travis", "Law & Order", "The Rise of Jenny Alpine", "Jeopardy!", "Match Game", "Jenorama!", "NHL Hockey", "Chicken Racing", "Squirrelball", "Collectible Style", and "Fun With Leelie". Labels point to various parts of the interface: "Current Date & Time" points to the top left, "Program Information" points to the current program details, "Program Date" points to the date in the grid header, "Channels" points to the channel names in the grid, "Current Program" points to the NHL Hockey image, "Program Times" points to the time slots in the grid header, and "Programs" points to the program titles in the grid.

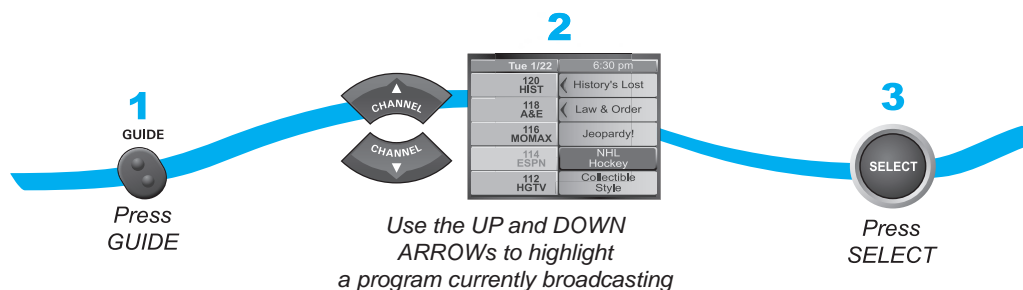
- A red background behind a channel name usually means you have not subscribed to the channel. After you subscribe to a channel, you can watch it. To subscribe to a channel, visit our website at dishnetwork.com or call 1-800-894-9131.
- A yellow background behind a channel indicates it is a digital over-the-air channel. See page 116 for instructions to connect an over-the-air antenna to your receiver.
- A green background behind a channel name means that you can use the SELECT button on your remote control to confirm the channel's addition to your subscription.

Finding Programs to Watch

Using the Program Guide

3

- The Program Guide shows which Favorites List is active. If All Chan is the active list, the Program Guide displays all the channels. The All Sub Favorites List displays only the channels included in your current subscription. The All HD Favorites List displays only the high-definition channels included in your subscription. If you set up another list, then the Program Guide shows only the channels you included on that list. See page 39 for information on Favorites Lists.
- The Program Guide displays information for programs on now and coming on within the next nine days or so. The guide does not include programs that have ended.



While accessing the on-screen Program Banner and Browse Banner, you can:

- Press PAGE UP/PAGE DOWN to move a page of program data at a time, allowing you to view guide information about programs on other channels.
- Enter the number of hours you want to skip, and then press the RIGHT/LEFT ARROW to move forward/back in the schedule. You cannot move back to programs that ended.
- Press SKIP FWD/SKIP BACK to move forward or back a day at a time, allowing you to view guide information about future programs on the current channel.

While browsing Program Guide information, you can move the highlight to a program and:

- Press the INFO button to see a pop-up screen of more detailed program information.
- Press the RECORD button to set an event timer for a program in the future.

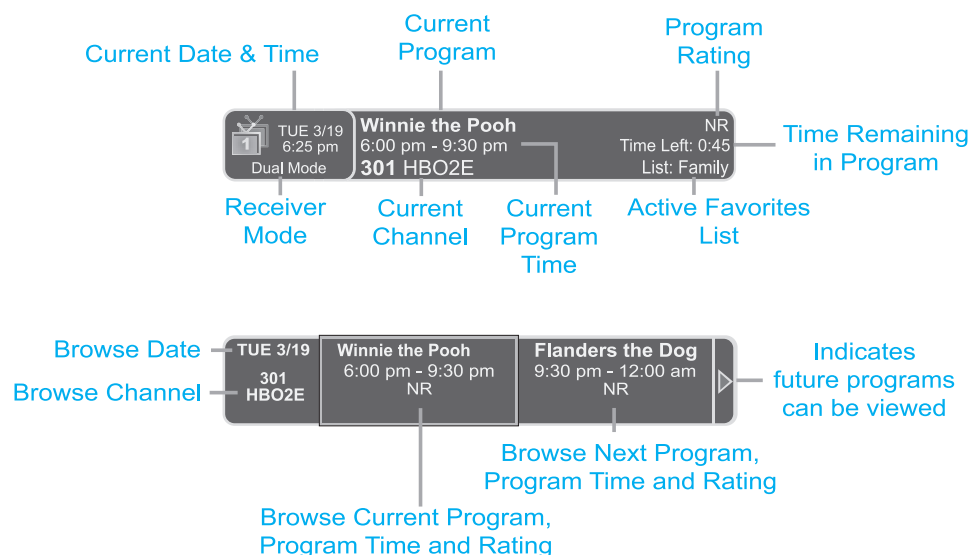
Note: You must be able to receive satellite programming from either the 119°W or 72.7° orbital location for the Program Guide to display as much as nine days of program information. If your satellite system cannot access either of these two orbital locations, then the receiver's Program Guide displays about two days of program information.

Chapter 3

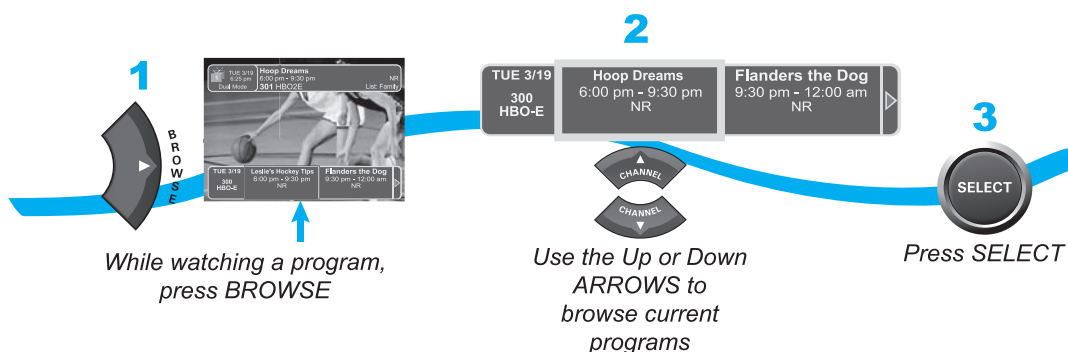
Using the Browse Banner

USING THE BROWSE BANNER

Use the Browse Banner to see what other programs are on now or coming on soon, while not missing the program you are watching.



When the Browse Banner is open, you will see the Program Banner information about the current program displayed at the top of the screen, and on the left-hand side of the Browse Banner at the bottom of the screen. At the bottom right of the screen is guide information about the program that is coming on next on the same channel.



The arrow head indicators at the far right-hand side of the bottom Browse Banner show when you can use the **RIGHT/LEFT ARROW** buttons to move the highlight forward/back in the guide schedule to see more programs. You cannot move back to programs that have ended.

USING THEMES AND SEARCH

Use the Themes and Search Feature to find exactly what you want to watch. This section shows you how to use Themes to find your favorite programs by type (for example, movies, movies by rating, sports, or news/business), or by keyword (if you're looking for a particular title or person's name in a program or event description).

You can list programs by the theme of their contents, (for example, just movies or just sports). Use Themes and Search to quickly find programs based on:

- **Theme.** You can look for something to watch by the program's theme (Movies, News, Sports, etc.), which makes your search easier and your television viewing more enjoyable.
- **Sub-theme.** You can use this selection to help you narrow the type of program even further. The Sub-Theme feature is different for each Theme category. For example, you can search Movies for comedy or Sports for football.
- **Keyword.** Use this selection if you want to be specific in your search (for example, an actor name or description). You can search for something to watch just by Keyword. This feature also categorizes programs on over-the-air channels (if an over-the-air antenna is connected to the receiver as described on page 116). You can search for events two ways:
 - Select **Title** to search for the words that appear in the title of a program.
 - Select **Info** to search for words that are in the program description or the title.

Enter the Keyword(s) in the Search Criteria Field in one of two ways:

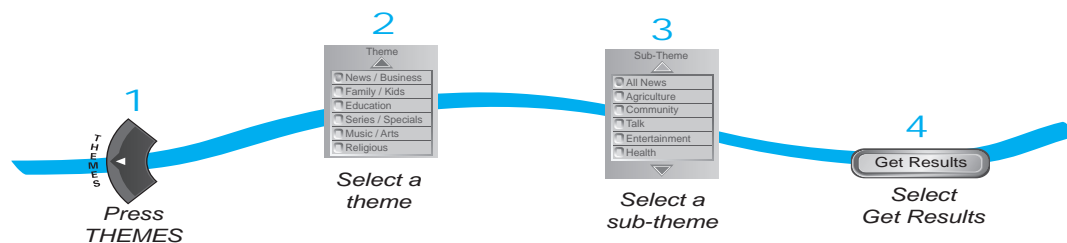
- Use the virtual on-screen keyboard to select characters to enter.
- Use the letters printed with the digits on the remote's NUMBER PAD buttons.

Note: See page 23 for information on using these features.

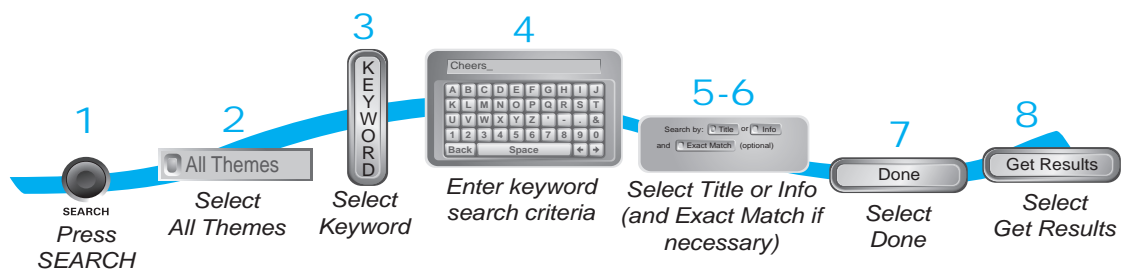
Chapter 3

Using Themes and Search

Using Themes



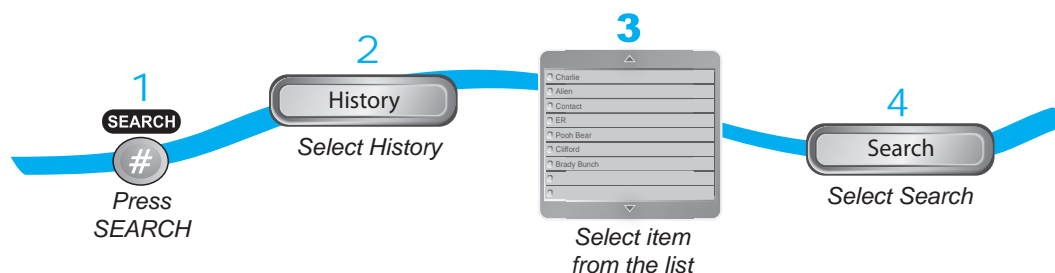
Using Keywords



Using History

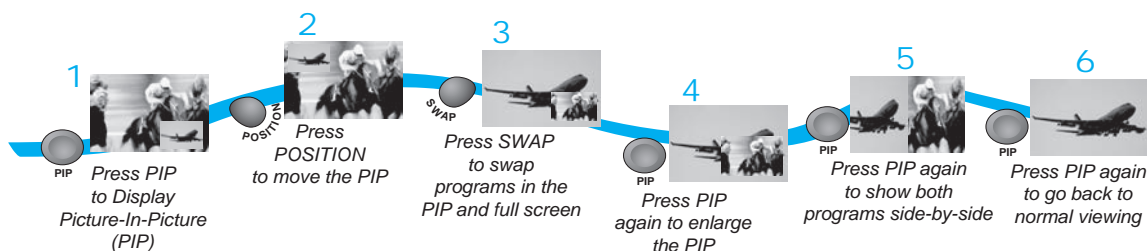
After you have searched for programs or keywords, your receiver keeps a history. When the receiver is in Dual Mode, you can access separate Search History information for TV1 and TV2. When the receiver is in Single Mode, only TV1's Search History is available. You can use Search History to research programming instead of typing the information again.

Note: You can use the **Edit** or **Delete** options to modify or remove listed search keywords.



USING PICTURE-IN-PICTURE

Picture-In-Picture (PIP) lets you watch two programs at once while the receiver is in Single Mode. The following instructions describe how to use PIP (see page 15 for instructions on changing from Dual to Single Mode).



TIPS

- Press INFO to view more information about a program or event you have highlighted.
- Press VIEW LIVE TV to cancel almost any menu or screen and return to watching TV.
- Press SWAP, without pressing the PIP button first, to switch between your receiver's two tuners while in Single Mode.
- Press POSITION, without pressing PIP first, to display side-by-side programs.



QUESTIONS

- **How can I customize the Program Guide?** You can set up a Favorites List as described on page 41. You can change how the Program Guide is displayed (such as size of text, or number of programming hours displayed) as described on page 97.
- **Why does my Program Guide show only two days of programming?** Your receiver may not be connected to a signal from the 119°W or 72.7° satellite. Refer to *Point Dish and Check Switch* on page 122 to see if you're receiving the signal(s).
- **Why are some of my channels missing?**
 - Parental controls may be set to lock or hide the channels. See *Chapter 6: Locks* on page 51 for information on locking and unlocking the receiver.
 - The Program Guide may be displaying the wrong list of channels. Press the GUIDE button to access the Program Guide. Press GUIDE again to select the next available Favorites List. Press GUIDE repeatedly to scan through all the available lists. See *Favorites Lists* on page 39 for more information.

Chapter 3

Questions

- **Which remote do I use?**
 - When the receiver is in Dual Mode: Use Remote Control 1 for menus and programming on the nearby TV and Remote Control 2 for those on the remote TV(s).
 - When the receiver is in Single Mode: Both the remotes control the receiver. Also, if the Shared View feature is enabled on your receiver, both the nearby and remote TV(s) will display the same programming on their screens.
- **Why isn't PIP working?** If the PIP feature is not working, your receiver is probably in Dual Mode. Press the MODE button located on the front panel to put your receiver in Single Mode if you'd like to use PIP. See page 15 for instructions on Single Mode.

Pay-Per-Programs



Chapter

4

Available pay-per-programs

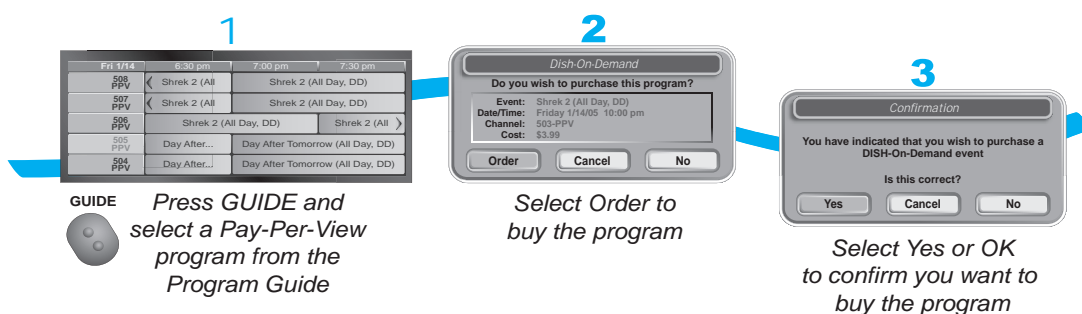
What you'll find in this chapter:

- **PAY-PER-VIEW**
- **DISH ON DEMAND**
- **DISHONLINE**

PAY-PER-VIEW

To order Pay-Per-View programs using your remote control, you must connect the receiver to an active phone line or broadband Internet connection. After you order a Pay-Per-View program, you can watch it on all of the receivers on your DISH Network account. Using the remote control, you can order the exact same program for each receiver but you pay for the program only once. However, replays of programs are separate events. Go to dishnetwork.com/ppv for a description of the types of Pay-Per-View events.

Ordering a Pay-Per-View Program



Note: Once you confirm an order for a Pay-Per-View program, you cannot cancel the order and you will be billed for it.

DISH ON DEMAND

DISH On Demand is DISH Network's Video On Demand service. Enjoy movies, TV shows, and other exciting DISH On Demand events. Through DISH Cinema, for example, you have immediate access to the latest movies on DISH Network. You can even use your remote's DVR buttons (such as PAUSE, PLAY, FWD, and BACK) to control your viewing experience. For more information, go to dishnetwork.com/ondemand.

To Order a Movie or Program

- 1 Press the DVR button to access the DISH On Demand menu screen.
- 2 Select the option for the type of on-demand programming you wish to order. Select **DISH Cinema**, for example, to Explore or Search movies, see a list of New Releases, or view movies that you have rented. Select **TV Shows** to Explore or Search TV entertainment, see a list of Most Popular shows, or view the programs that you have rented. If applicable, you can select **Midnight Lounge** to view and choose adult-only programming.
- 3 Use the UP and DOWN ARROW buttons to scroll through the choices, if available.
- 4 Highlight and select the movie, TV program, or on-demand event you want to watch.
- 5 Select **Rent**.

Rental Considerations

- You can repeatedly watch a rented program for the period of time (for example, 24 hours) listed. Rented programs cannot be saved to the My Recordings list.
- The **My Rentals** option shows you information about DISH On Demand Programs you have rented, including how much time you have remaining to watch them.
- Be sure Updates and Inactivity Standby are enabled so your receiver always has the latest DISH On Demand programs. See *Scheduling Receiver Updates* on page 101.

4

DISHONLINE

DishOnline.com lets you view authorized programming right over the Internet, as long as you're connected to a broadband (high-speed) Internet connection. For steps to connect your satellite receiver to the Internet, refer to *Connecting a Broadband Internet Connection* on page 113. For more information, also see the website at: dishonline.com

Use Considerations

- Your receiver must be connected to a network with broadband Internet access to view the DishOnline content. Contact your Internet service provider to verify download speeds and any terms or conditions affecting your broadband Internet connection .
- Most Internet service providers have a "Fair Access Policy" which sets usage limits on the amount that can be downloaded in a given time period. Contact your Internet service provider to find out about their Fair Access Policy.
- Download-speed of programs varies depending on the speed of your Internet connection, the program being downloaded, and usage of the Internet connection by other devices in your home, such as personal computers.
- You have a limited time frame to watch rented content before it is automatically deleted from your receiver. You will typically have 7 days to begin watching a program, and then you will typically have 24 hours to finish watching it. Review the list on the My Rentals screen for the time remaining.
- You are billed for a rental or on-demand program or event when you begin watching it (which may be while the rest of the program continues downloading) or when downloading of the program or event is completed, whichever occurs first.

ORDERING CONSIDERATIONS

Keep in mind these important considerations about pay-per-view types of programs.

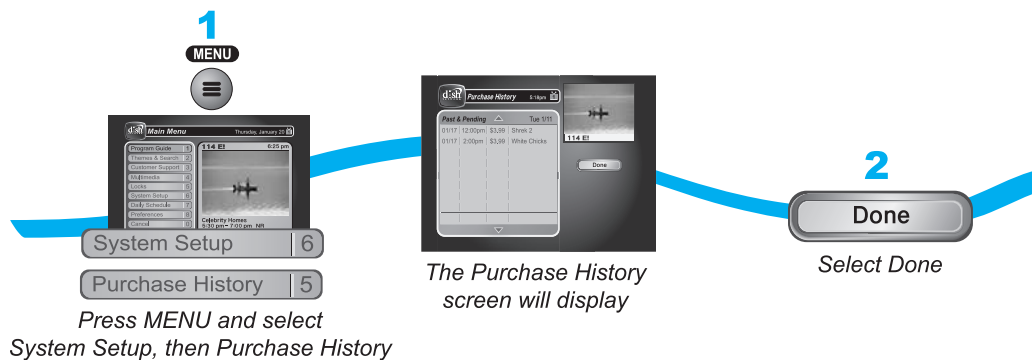
- When you confirm an order for a program, you cannot cancel the order and you will be billed for it.
- You can use Locks to control the programs your family views. See *What are Locks?* on page 44.

Chapter 4

Tips

- You can review what you have rented during the last 30-60 days by looking in your Purchase History.
- The program titles you order will appear on your DISH Network bill.

Reviewing Orders



TIPS

- You can set up timers on the receiver to record Pay-Per-View programs. See page 67 for more details. You cannot record DISH On Demand programs.
- You can prevent others from purchasing Pay-Per-View programs by using locks (see page 49).
- Keep an active phone line connected to your receiver so you can order Pay-Per-View programs with your remote control.



QUESTIONS

- **How can I order an event for all my receivers?**
 - Order on each receiver, one at a time with the remote control. Make sure there is an active phone line or broadband Internet connection on each receiver.
 - Order the event by phone at 1-877-DISH-PPV (347-4778). Charges may apply.
 - Order the event online at www.dishnetwork.com/ppv.
 - Order the event by phone at 1-800-894-9131. Charges may apply.
- **I ordered a Pay-Per-View program but can only see it on one receiver.** Some Pay-Per-View programs are restricted to one receiver per account.

- **Will I be charged more than once for ordering the same Pay-Per-View on two or more receivers?** If you're using the remote control, you won't be charged more than once as long as it is the same exact event (for example, at the same time or All Day events).
- **Why doesn't my Program Guide show any Pay-Per-View channels?** You may be using a Favorites List that doesn't include Pay-Per-View channels. Press GUIDE to open the Program Guide and then press GUIDE again until you see All Chan in the upper left corner of the Program Guide. See *Chapter 5: Favorites Lists* on page 39 for more information on using Favorites Lists. You may have Pay-Per-View channels locked and hidden. See *Chapter 6: Locks* on page 43.
- **Why are some Pay-Per-View programs blacked out?** Sporting events and other programs are sometimes blacked out because of local restrictions.
- **Why did my all-day Pay-Per-View program shut off while I was watching it?** The all-day events run from 3 AM to 3 AM (Mountain Time).

Chapter 4

Notes

Notes

Favorites Lists



Chapter

5

5

Setting Up Your Favorites Lists

What you'll find in this chapter:

- **WHAT ARE FAVORITES LISTS?**
- **CREATING OR CHANGING FAVORITES LISTS**
- **NAMING FAVORITES LISTS**
- **USING FAVORITES LISTS**

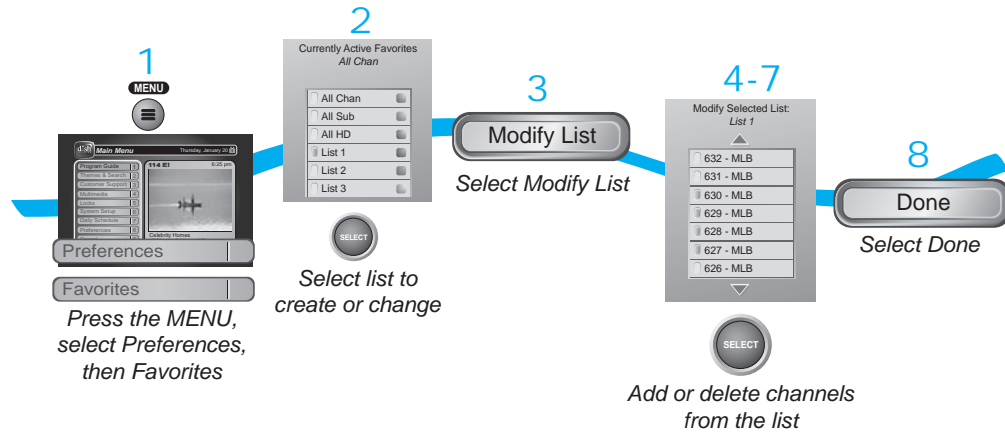
WHAT ARE FAVORITES LISTS?

Favorites Lists are custom lists of your favorite channels. You can create and change the lists yourself, adding and removing channels as you wish. Your favorite channels can be grouped in as many as four lists for TV1 and four lists for TV2 (in Dual Mode).

- When using a Favorites List, the Program Guide and Browse Banner display only the channels in that Favorites List. Also, when you use the remote control UP or DOWN ARROW to change channels, the receiver skips channels that are not on the list. Unlisted channels are still accessible by entering the channel number directly.
- The All Chan list contains all the channels, including channels not in your current subscription. You cannot make any changes to the All Chan list.
- The All Sub list contains all the channels in your subscription. You cannot make any changes to the All Sub list, except by changing your subscription.
- The All HD list contains all of the HD channels in your subscription.
- Each Favorites List has a unique color in the Program Guide. You can give each list a name. When you first get the receiver, the four lists are named List 1, List 2, List 3, and List 4. The lists are empty until you add channels to them.
- When you put the receiver in Single Mode, the Favorites Lists for only TV1 are available. However, when you go back to Dual Mode, the Favorites Lists for TV2 are available again.
- If you choose a program using Themes or by entering a channel number using the remote control, the receiver tunes to the channel for that program whether or not that channel is on the active Favorites List.
- You can include over-the-air channels in your Favorites Lists if an over-the-air antenna is connected to the receiver. See page 116 for instructions on connecting an over-the-air antenna.

CREATING OR CHANGING FAVORITES LISTS

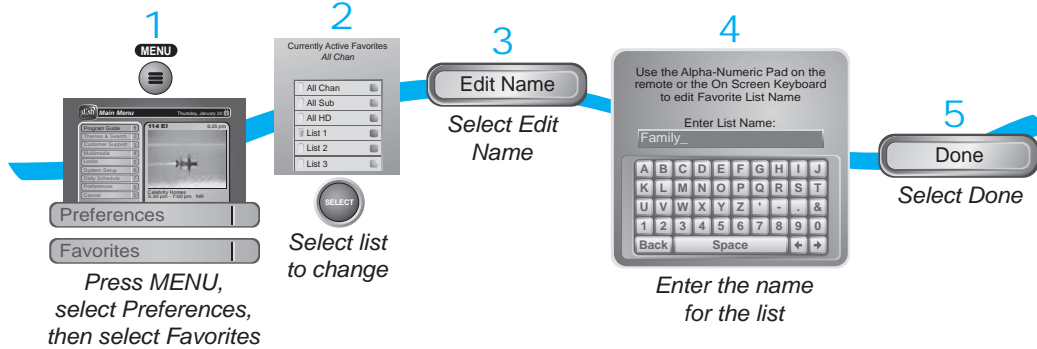
You can create, add channels to, and remove channels from a Favorites List. When you use your Favorites List only those channels in the list are shown in the Program Guide and Browse Banner.



5

NAMING FAVORITES LISTS

You can name your Favorites Lists whatever you want, up to eight characters long.



USING FAVORITES LISTS

Press GUIDE to open the Program Guide. Press GUIDE again to select the next Favorites List. Press GUIDE repeatedly to scan through all the available lists.

GUIDE





TIPS

- Two lists cannot have the same name. For example, on TV1, you cannot have two lists named “Dad’s List.” However, TV1 and TV2 can have lists with the same names.
- While in the program guide, press GUIDE to switch Favorites List functions only if you have added channels to the Favorites List. If you have not created a Favorites List, pressing GUIDE switches the receiver between the All Chan, All Sub, and All HD Lists.
- When you put the receiver in Single Mode, the Favorites Lists for TV2 are not available. However, when you go back to Dual Mode, the Favorites Lists for TV2 are available again.
- Locked and hidden channels do not display in Favorites Lists.



QUESTIONS

- **Why are channels missing from the Program Guide?**
 - You might have a Favorites List that does not contain those channels. Press GUIDE until the All Chan, All Sub, or All HD list displays.
 - You might have channels locked or hidden.
- **Why are TV2’s Favorites Lists missing?** When the receiver is in Single Mode, TV2’s Favorites Lists are not available.

Locks



Chapter

6

Securing Your Receiver and Account

6

What you'll find in this chapter:

- **WHAT ARE LOCKS?**
- **CREATING OR CHANGING RATINGS LOCKS**
- **CREATING OR CHANGING CHANNEL LOCKS**
- **LOCKING OR UNLOCKING PAY-PER-VIEW CHANNELS**
- **HIDING ADULT CONTENT OR LOCKED CHANNELS**
- **LOCKING OR UNLOCKING THE FRONT PANEL**
- **CREATING OR CHANGING A PASSWORD**
- **LOCKING AND UNLOCKING YOUR RECEIVER**

WHAT ARE LOCKS?

Locks allow you to password-protect programming based on ratings, or on a channel-by-channel basis. When you have locked the receiver:

- If you try to access a locked item or open the Locks menu, the receiver displays a message asking you to enter the password.
- The receiver permits three attempts to enter the correct password. If you fail to enter the correct password, the receiver does not allow you to try again for several minutes.
- If you enter the correct password, you can access the locked item or open the Locks menu.
- If you exit a locked item or close the Locks menu, you must enter the password to access the item.
- If you want to enable the TV1 Out on the Modulator Setup screen (see page 92), you must enter the password to continue.
- When the receiver is in Single Mode, TV2's locks are not available. See *Switching Between Dual and Single Mode* on page 15.

Locks for programming on the nearby TV (TV1) are set using the TV1 menus. Locks for programming on the remote TVs (TV2) are set using the TV2 menus. Locks set for TV1 programming are separate from locks set for TV2 programming. The information in this chapter applies to locks set by either TV1 or TV2 menus.



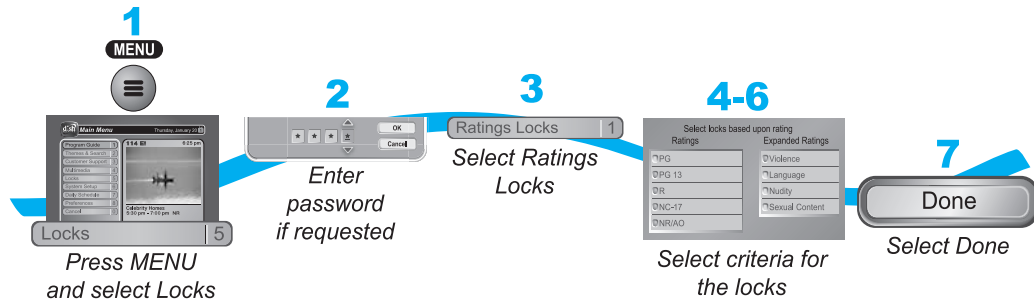
When you unlock programming delivered through the **HOME DISTRIBUTION** output to your in-home cabling system, you are allowing all TVs connected to your in-home cabling system to have access to this programming. In this case, you must rely on the V-Chip technology and settings in the individual TVs to prevent viewing of inappropriate programming. Consult your TV user's guides for instructions to set up V-Chip protection.

Locking the receiver is a two-step process:

- 1 Create the locks that you want. Available locks types are:
 - Ratings Locks—locks programs based on ratings.
 - Channel Locks—locks channels regardless of content.
 - Lock PPV—prevents unauthorized pay-per-view or on demand ordering.
 - Hide Adult or Hide Locked—hides adult channels or locked channels from being displayed in the Program Guide and other channel lists.
 - Front Panel Lock—prevents the front panel buttons from being used.
- 2 Lock the receiver. When the receiver is locked, anyone who wants to access locked items must enter the password.

CREATING OR CHANGING RATINGS LOCKS

You can lock programs based on Motion Picture Association of America (MPAA) ratings (PG, PG-13, etc.) and expanded ratings (violence, language, etc.).



- 1 Press **MENU** and select **Locks**.
- 2 If the receiver is locked, enter the password using the **NUMBER PAD**. The receiver displays stars (*) as you enter the digits of the password. Select **OK**.
- 3 Select **Ratings Locks**.
- 4 Highlight the least restrictive rating that you want to block. Press **SELECT** to lock the highlighted rating and all ratings more restrictive than it (for example, locking the **PG-13** ratings automatically locks **R**, **NC-17**, and **NR/AO** ratings).

MPAA Ratings

G—General Audiences. A G-rated motion picture contains nothing in theme, language, nudity, sex, violence or other matters that, in the view of the Rating Board, would offend parents whose younger children view the motion picture. The G rating is not a “certificate of approval,” nor does it signify a “children’s” motion picture. Some snippets of language may go beyond polite conversation but they are common everyday expressions. No stronger words are present in G-rated motion pictures. Depictions of violence are minimal. No nudity, sex scenes, or drug use are present in the motion picture.

PG—Parental Guidance Suggested. Some Material May Not Be Suitable For Children. A PG-rated motion picture should be investigated by parents before they let their younger children attend. The PG rating indicates, in the view of the Rating Board, that parents may consider some material unsuitable for their children, and parents should make that decision. The more mature themes in some PG-rated motion pictures may call for parental guidance. There may be some profanity and some depictions of violence or brief nudity. But these elements are not deemed so intense as to require that parents be strongly cautioned beyond the suggestion of parental guidance. There is no drug use content in a PG-rated motion picture.

PG-13—Parents Strongly Cautioned. Some Material May Be Inappropriate For Children Under 13. A PG-13 rating is a sterner warning by the Rating Board to parents to determine whether their children under age 13 should view the motion picture, as some

Chapter 6

Creating or Changing Ratings Locks

material might not be suited for them. A PG-13 motion picture may go beyond the PG rating in theme, violence, nudity, sensuality, language, adult activities or other elements, but does not reach the restricted R category. The theme of the motion picture by itself will not result in a rating greater than PG-13, although depictions of activities related to a mature theme may result in a restricted rating for the motion picture. Any drug use will initially require at least a PG-13 rating. More than brief nudity will require at least a PG-13 rating, but such nudity in a PG-13 rated motion picture generally will not be sexually oriented. There may be depictions of violence in a PG-13 movie, but of the harsher sexually-derived words, though only as an expletive, initially requires at least a PG-13 rating. More than one such expletive requires an R rating, as must even one of those words used in a sexual context. The Rating Board nevertheless may rate such a motion picture PG-13 if, based on a special vote by a two-thirds majority, the Raters feel that most American parents would believe that a PG-13 rating is appropriate because of the context or manner in which the words are used or because the use of those words in the motion picture is inconspicuous.

R—Restricted. Children Under 17 Require Accompanying Parent or Adult Guardian. An R-rated motion picture, in the view of the Rating Board, contains some adult material. An R-rated motion picture may include adult themes, adult activity, hard language, intense or persistent violence, sexually-oriented nudity, drug abuse or other elements, so that parents are counseled to take this rating very seriously. Children under 17 are not allowed to attend R-rated motion pictures unaccompanied by a parent or adult guardian. Parents are strongly urged to find out more about R-rated motion pictures in determining their suitability for their children. Generally, it is not appropriate for parents to bring their young children with them to R-rated motion pictures.

NC-17—No One 17 and Under Admitted. An NC-17 rated motion picture is one that, in the view of the Rating Board, most parents would consider patently too adult for their children 17 and under. No children will be admitted. NC-17 does not mean “obscene” or “pornographic” in the common or legal meaning of those words, and should not be construed as a negative judgment in any sense. The rating simply signals that the content is appropriate only for an adult audience. An NC-17 rating can be based on violence, sex, aberrational behavior, drug abuse or any other element that most parents would consider too strong and therefore off-limits for viewing by their children.

NR/AO—Not Rated. Programs created before MPAA rating system have an NR/AO rating. Also, if connection to the satellite is lost, the NR/AO rating appears.

TV Ratings

TV Ratings contain information about the audience and a content label.

Audience Ratings of TV Ratings

TV-Y—All Children. This program is designed to be appropriate for all children. Whether animated or live-action, the themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6. This program is not expected to frighten younger children.

TV-Y7—Directed to Older Children. This program is designed for children age 7 and above. It may be more appropriate for children who have acquired the developmental

skills needed to distinguish between make-believe and reality. Themes and elements in this program may include mild fantasy violence or comedic violence, or may frighten children under the age of 7. Therefore, parents may wish to consider the suitability of this program for their very young children.

TV-Y7-FV—Directed to Older Children - Fantasy Violence. For those programs where fantasy violence may be more intense or more combative than other programs in this category, such programs will be designated TV-Y7-FV.

TV-G—General Audience. Most parents would find this program suitable for all ages. Although this rating does not signify a program designed specifically for children, most parents may let younger children watch this program unattended. It contains little or no violence, no strong language and little or no sexual dialogue or situations.

TV-PG—Parental Guidance Suggested. This program contains material that parents may find unsuitable for younger children. Many parents may want to watch it with their younger children. The theme itself may call for parental guidance and/or the program may contain one or more of the following: some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V).

TV-14—Parents Strongly Cautioned. This program contains some material that many parents would find unsuitable for children under 14 years of age. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch unattended. This program may contain one or more of the following: intensely suggestive dialogue (D), strong coarse language (L), intense sexual situations (S), or intense violence (V).

TV-MA—Mature Audience Only. This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17. This program may contain one or more of the following: crude indecent language (L), explicit sexual activity (S), or graphic violence (V).

Content Labels of TV Ratings

TV Parental Guidelines may have one or more letters added to the basic rating to let parents know when a show may contain violence, sex, adult language, or suggestive dialogue.

D—suggestive dialogue (usually means talks about sex)

L—coarse or crude language

S—sexual situations

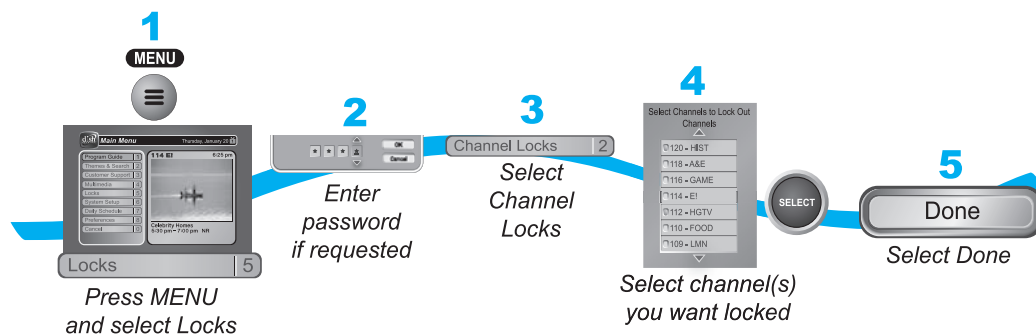
V—violence

FV—fantasy violence (children's programming only)

- 5 Select the expanded rating code(s), if you want to also lock these program ratings.
- 6 To unlock a rating code, select the code again.
- 7 Select **Done**. To ensure new parental controls take effect, make sure the receiver itself is locked, as described on page 51.

CREATING OR CHANGING CHANNEL LOCKS

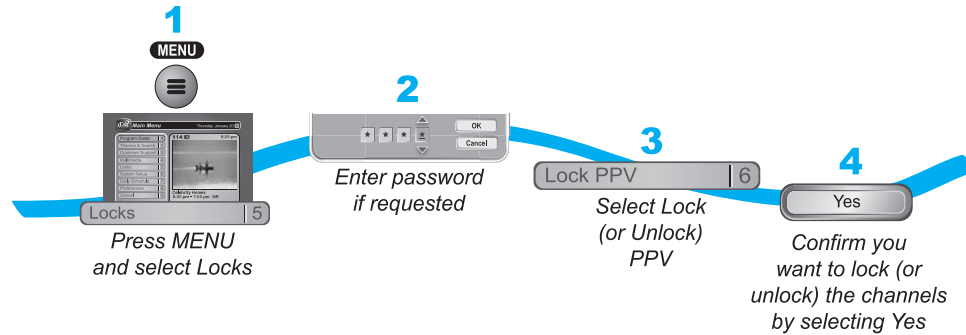
You can lock any channel, including Pay-Per-View and over-the-air channels.



- 1** Press the **MENU** button and then select **Locks**.
- 2** If the receiver is locked, enter the password using the remote control's **NUMBER PAD**. The receiver displays stars (*) as you enter the digits of the password. Then select **OK**.
- 3** To create or change parental controls for specific channels, select **Channel Locks**.
- 4** Highlight and select each channel that you want to lock or unlock. Press the **UP** or **DOWN ARROW** button to highlight the channel. You can also move to highlight each channel number using the remote control's **NUMBER PAD**. If the checkbox next to the channel has a checkmark, the channel is locked. Select the channel again to unlock it.
- 5** Select **Done**. To ensure new parental controls take effect, make sure the receiver itself is locked, as described on page 51.

LOCKING OR UNLOCKING PAY-PER-VIEW CHANNELS

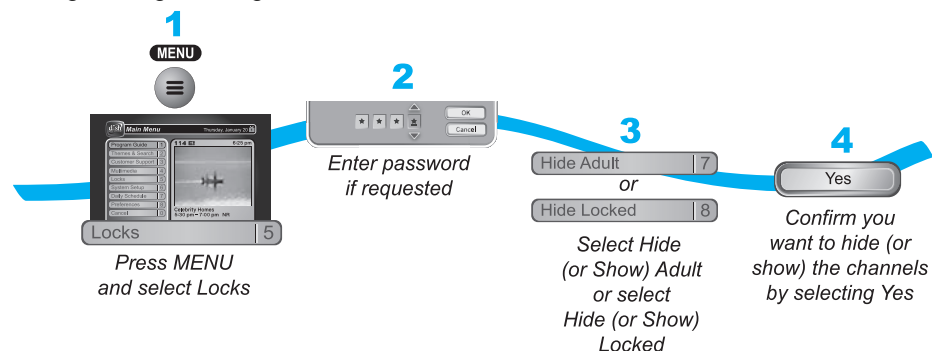
This locks all Pay-Per-View channels. You also can lock individual Pay-Per-View channels by using channel locks, as described in the preceding section.



- 1 Press the **MENU** button and then select **Locks**.
- 2 If the receiver is locked, enter the password using the remote control's **NUMBER PAD**. The receiver displays stars (*) as you enter the digits of the password. Then select **OK**.
- 3 Select **Lock PPV** or **Unlock PPV**.
- 4 Select **Yes**. Make sure the receiver itself is locked, as described on page 51.

HIDING ADULT CONTENT OR LOCKED CHANNELS

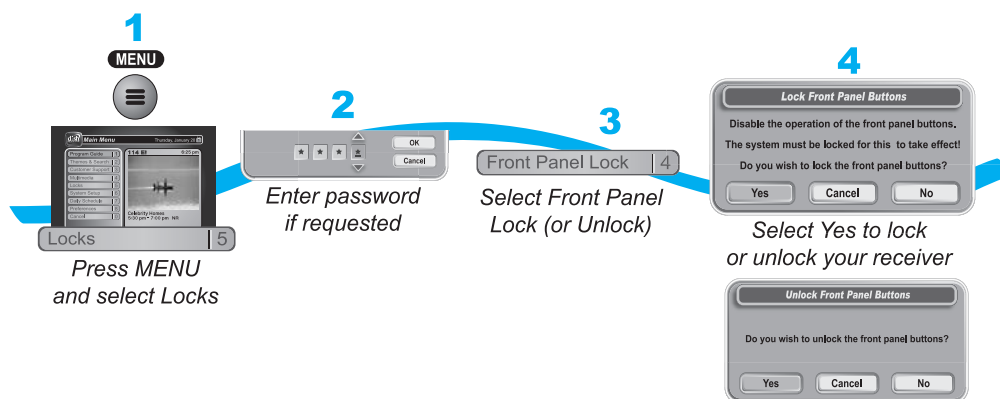
When you hide adult channels or locked channels, you prevent the Program Guide, Themes lists, and the Browse Banner from displaying these channels. You also prevent anyone from choosing these channels by using the **UP** or **DOWN ARROWS** or by directly entering the digits using the **NUMBER PAD** buttons on their remote control.



- 1 Press **MENU** and select **Locks**.
- 2 If the receiver is locked, enter the password using the **NUMBER PAD**. Select **OK**.
- 3 Select **Hide** (or **Show**) **Adult** or **Hide** (or **Show**) **Locked**.
- 4 Select **Yes**. Make sure the receiver is locked as described on page 51.

LOCKING OR UNLOCKING THE FRONT PANEL

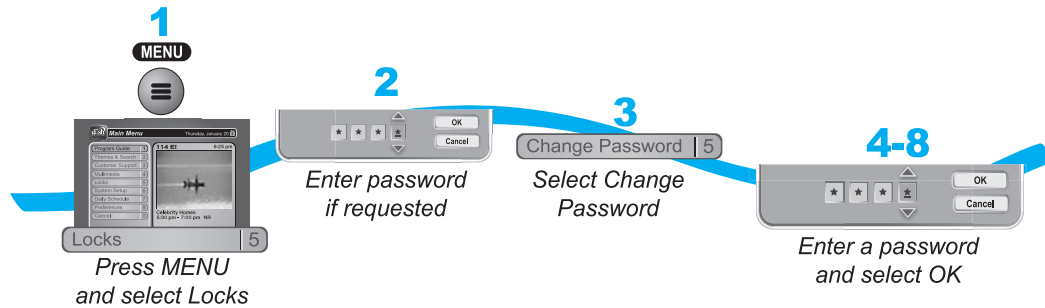
This lock keeps people from using the front-panel buttons on your receiver unless they enter the correct password, but it does not lock the remote-control buttons. This option is only available on the TV1 menus; you should use the TV1 remote control for this task.



- 1 Press the **MENU** button and then select **Locks**.
- 2 If the receiver is locked, enter the password using the remote control's **NUMBER PAD**. The receiver displays stars (*) as you enter the digits of the password. Then select **OK**.
- 3 Select **Front Panel Lock** to lock or unlock the front panel of your receiver.
- 4 Select **Yes**. To activate the Front Panel Lock, you also must lock the receiver itself—make sure that the receiver is locked, as described on page 51.

CREATING OR CHANGING A PASSWORD

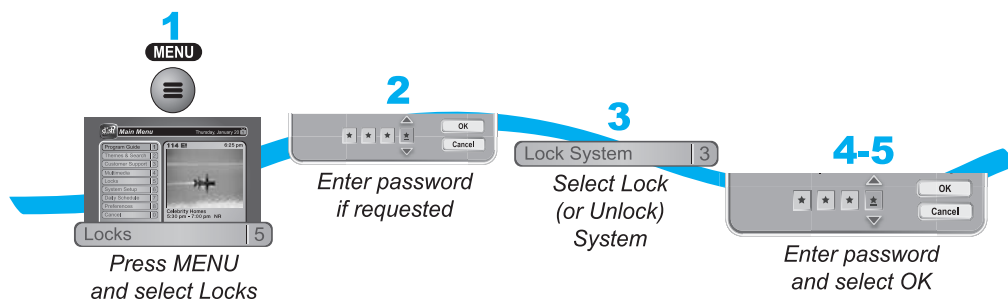
Set up your password before using the receiver locks.



- 1 Press the **MENU** button and then select **Locks**.
- 2 If the receiver is locked, enter the password using the remote control's **NUMBER PAD**. The receiver displays stars (*) as you enter the digits of your password. Then select **OK**.
- 3 If you are changing an existing password, select **Change Password**. If you are creating a password for the first time, select **Lock System** and go to step 6.
- 4 Enter the current password using the remote control's **NUMBER PAD**. Select **OK**.
- 5 Press the **SELECT** button.
- 6 Enter the new password using the remote control's **NUMBER PAD**. Select **OK**.
- 7 Enter the new password again for confirmation, also using the **NUMBER PAD**. The receiver displays stars (*) as you enter the digits of the password. Then select **OK**.
- 8 Memorize your new password. From now on, enter this password to lock or unlock the receiver. If you forget the password, you will need to contact a **DISH Network Customer Service Representative**.

LOCKING AND UNLOCKING YOUR RECEIVER

You must lock the receiver for any parental controls you set to take effect. Locking the receiver also locks TV1's modulator output (see page 92). To lock the receiver, you must first create a password (see *Creating or Changing Ratings Locks on page 45*). Be sure to refer to this section whenever you have set any parental-control locks on your receiver.



Chapter 6

Tips

- 1 Press the MENU button and then select **Locks**.
- 2 If the receiver is locked, enter the password using the remote control's NUMBER PAD. The receiver displays stars (*) as you enter the digits of your password. Then select **OK**. If the receiver is unlocked, you will be prompted to enter a password when you lock it.
- 3 Select Lock System or Unlock System, as applicable. If you are locking the receiver, the receiver displays a message prompting you to enter a password.
- 4 Enter a password using the remote control's NUMBER PAD. The receiver displays stars (*) as you enter the digits of the password. Then select **OK**.
- 5 Confirm the password by re-entering it. Then select **OK**. All the parental-control locks you have set are now in effect.



TIPS

- If the receiver displays a message prompting you to enter a password, the receiver is locked.
- If you want to unlock the receiver or any specific lock, use the password for the TV output you're watching. For example, use TV1's password to unlock TV1's locks and TV2's password for TV2's locks.
- When you lock a rating, you also lock all other more restrictive ratings. For example, if you lock PG-13 rated programs, then all programs with the R, NC-17, and NR/AO ratings are also locked.



QUESTIONS

- **Why didn't a lock I set take effect?** You have to lock the receiver for any lock you set to take effect. See page 51 for details.
- **Why don't the locks I set for TV2 work?** The locks you set on TV2 are not available in Single Mode.
- **What do I do if I forget my password?** If you forget your password, you will need to speak with a Customer Service Representative.

Interactive TV



Chapter



Interacting With Your TV

What you'll find in this chapter:

- **DISHHOME INTERACTIVE TV**
- **CUSTOMER SUPPORT**

DISHHOME INTERACTIVE TV

Press DISH on the remote control or go to channel 100 to view the DishHOME features available with your service. You can order channels, check the news and weather, and even play games. Make sure you connect an active phone line to your receiver. You can enjoy this feature on one TV at a time.



CUSTOMER SUPPORT

An important feature of your satellite TV receiver is Customer Support. This menu provides convenient access to your DISH Network account to review your statement, pay your bill, upgrade programming, and more. Make sure you connect an active telephone line or broadband network to your receiver.

Press the MENU button and then select **Customer Support**.



TIPS

- Whenever you want to exit an interactive feature and return to watching programming, press VIEW LIVE TV and you'll be taken to the last channel you were watching.
- You can also get to Customer Support from DishHOME.

Digital Video Recording



Chapter

8

Recording & Pausing Live Programs

What you'll find in this chapter:

- **WHAT IS DVR?**
- **PAUSING A PROGRAM**
- **REVERSE, FAST FORWARD, AND SKIP**
- **SLOW MOTION AND FRAME-BY-FRAME**
- **RECORDING A LIVE PROGRAM**
- **PLAYING A RECORDED PROGRAM**
- **USING RECORD PLUS AND USING RECORD LINK**
- **RECORD & WATCH DIFFERENT PROGRAMS**
- **RECORDING OPTIONS**
- **GROUPING AND SORTING RECORDED PROGRAMS**

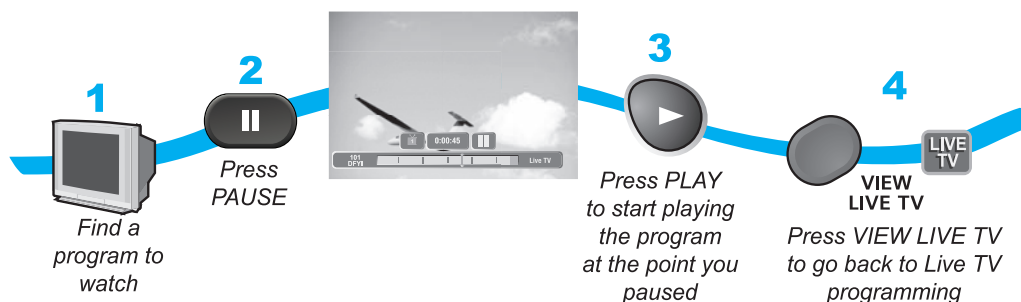
WHAT IS DVR?

The Digital Video Recorder (DVR) features let you watch TV the way you want. You can pause, reverse, or skip back through a program. Then you can continue watching TV. Also, you can record and play back programs with full digital audio and video quality, without a VCR.

For example, if you get a phone call while you are watching a live or pre-recorded program, you can pause the program, talk on the phone for an hour, restart the program, and not miss any of the action.

You can move through a program forward and backward in slow motion or frame-by-frame using the DVR's auto recording features while watching live or recorded programs.

PAUSING A PROGRAM







On some TVs, the presence of fixed images for extended periods of time may cause them to be permanently imprinted on the screen. Consult your TV user's guide for information on whether this is a problem for your TV, what operating/viewing restrictions apply to avoid this problem, and associated TV warranty coverage.

For a live program, the on-screen pause timer shows how long you've paused the program. The pause timer shows how far you're behind the live program. You can pause a live program for up to one hour. If you think you might be away from the TV for more than an hour but don't want to miss any of the program, consider recording the program (see page 58).











REVERSE, FAST FORWARD, AND SKIP

This section describes how to use the DVR buttons to move forward and back quickly while you watch TV.

-
- | | |
|---|---|
| 
<small>BACK</small> | <p>Press BACK once to reverse the program 4 times as fast as normal play. Press BACK twice to reverse at 15 times normal speed, three times to reverse at 60 times normal speed, and four times to reverse at 300 times normal speed. The on-screen bar shows how far you've gone. For a live program, you can only reverse back to the last channel change or back one hour, whichever occurs first.</p> |
| 
<small>FWD</small> | <p>Press FWD (forward) once to fast forward through the program 4 times normal speed. Press FWD twice to forward at 15 times normal speed, three times to forward at 60 times normal speed, and four times to forward at 300 times normal speed. The on-screen bar shows how far you've gone. Of course, you can't "forward" into the part of a "live" program that hasn't been broadcast yet.</p> |
| 
<small>SKIP BACK</small> | <p>Press SKIP BACK to skip back about 10 seconds in a program. Press this button again to skip back again.</p> |
| 
<small>SKIP FWD</small> | <p>Press SKIP FWD to skip ahead about 30 seconds in the program. Press this button again to skip ahead again.</p> |
-

SLOW MOTION AND FRAME-BY-FRAME

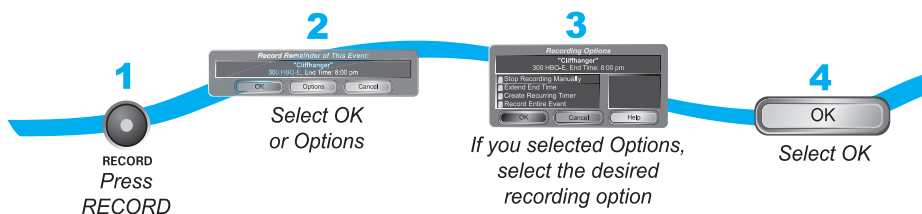
Your satellite receiver has features that allow you to slow down live TV. This section describes how to use the DVR buttons to use slow motion and frame-by-frame advance or reverse while you watch TV. Press **PLAY** to exit any of the features described below.

-
- | | |
|---|--|
|  
<small>BACK</small> | <p>Press PAUSE and then press BACK to reverse the program in slow motion. Press BACK once to reverse the program 1/4 the speed of normal play. Press BACK twice to reverse at normal speed.</p> |
|  
<small>FWD</small> | <p>Press PAUSE and then press FWD to forward the program in slow motion. When you press FWD once the program advances at 1/15 the speed of normal play. Press FWD twice to forward at 1/4 as fast as normal play. Press FWD three times to play the program. Of course, you can't "forward" into the part of a "live" program that hasn't been broadcast yet.</p> |
|  
<small>SKIP BACK</small> | <p>Press PAUSE and then press SKIP BACK repeatedly to reverse the recording frame-by-frame.</p> |
|  
<small>SKIP FWD</small> | <p>Press PAUSE and then press SKIP FWD repeatedly to advance the recording frame-by-frame.</p> |
-

Chapter 8

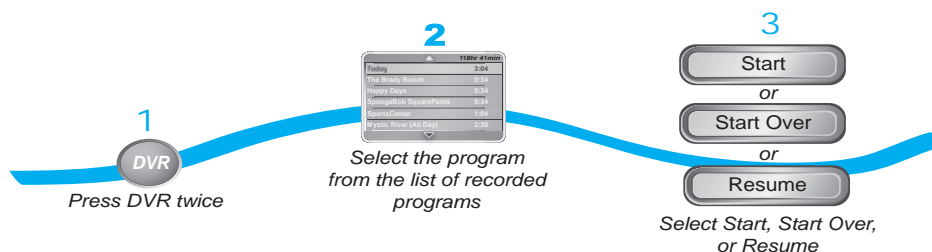
Recording a Live Program

RECORDING A LIVE PROGRAM



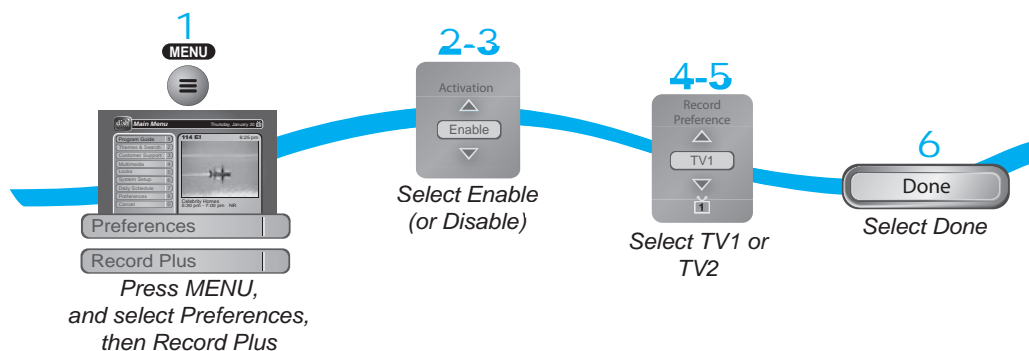
Note: Programs recorded in HD require up to six times more storage space than programs recorded in SD.

PLAYING A RECORDED PROGRAM



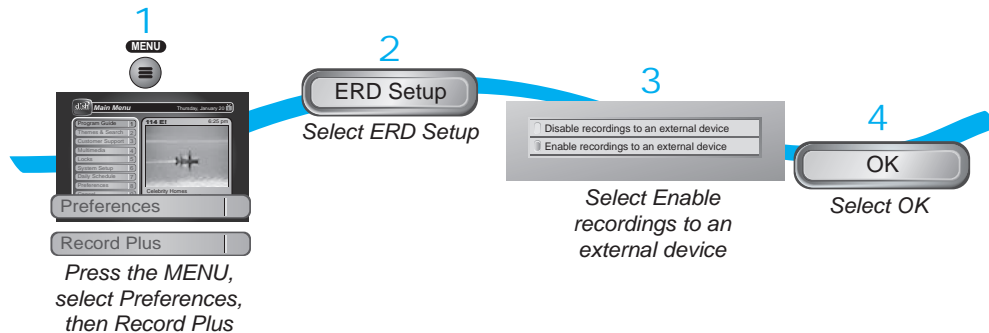
USING RECORD PLUS

When Record Plus is enabled, you decide which receiver output (TV1 or TV2) will usually record your events as a default location. This feature is only available in Dual Mode. The following instructions describe how to enable or disable Record Plus.



USING RECORD LINK

Your receiver has a timer feature called Record Link. This feature sends data (audio, video, and other commands) to an external recording device (ERD) that you can connect to the receiver's RCA-type outputs.



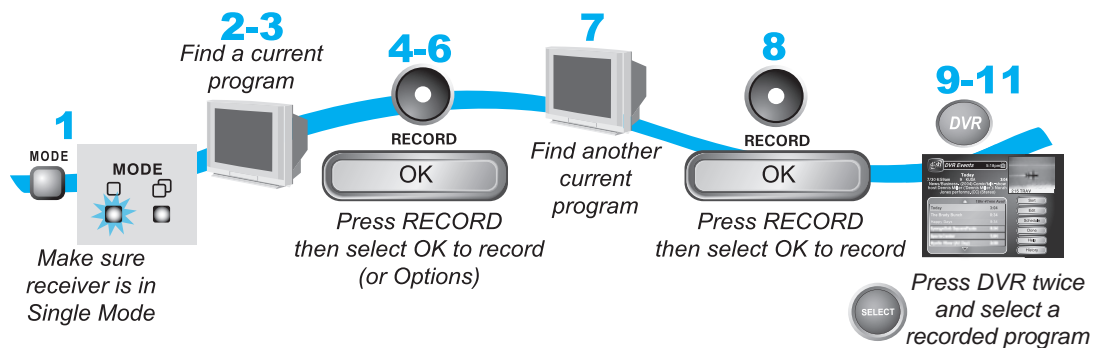
RECORDING WHILE WATCHING DIFFERENT PROGRAMS

This section describes the three basic ways to record a program while watching different programs at the same time.

- Recording in Single Mode (in the following section).
- Recording Events with Record Plus (on page 60).
- Recording Events without Record Plus (on page 61).

Recording in Single Mode

In Single Mode, you can set up the satellite receiver to record two programs while watching one you've already recorded.



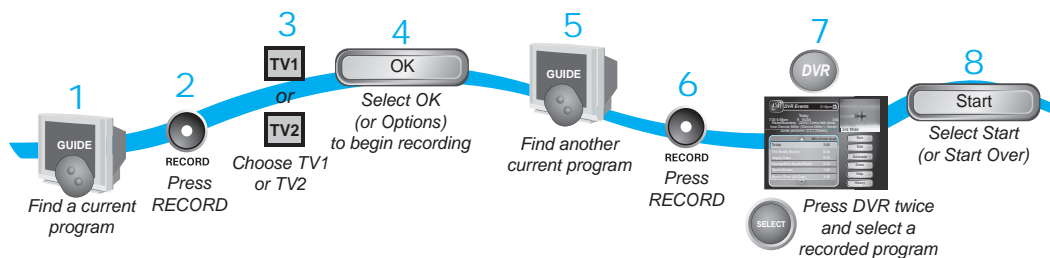
Chapter 8

Recording While Watching Different Programs

- 1 Make sure the receiver is in Single Mode by looking at the Single indicator on the front panel. See *Switching Between Dual and Single Mode* on page 15.
- 2 Press GUIDE to open the Program Guide. Find a current program you want to record now.
- 3 Press SELECT to tune to that program.
- 4 Press RECORD.
- 5 Select **OK** to begin recording now or **Options** to customize your recording settings.
- 6 If you selected **Options**, see *Recording Options* on page 62 for your choices.
- 7 Choose another program as described in Step 2.
- 8 Press RECORD and select **OK** when the popup displays. You are now recording two programs at the same time.
- 9 Press DVR twice on the remote control. The My Recordings screen will open. You should see the two programs that are recording indicated by the red dot next to the listings.
- 10 Select a program that you recorded earlier and start the playback.
- 11 You should now be watching a pre-recorded program while the receiver is recording the other two events (programs).

Recording Events with Record Plus

When Record Plus is enabled and you're in Dual Mode, you can record two programs from the same location while watching a pre-recorded program, if no one is using the other tuner.



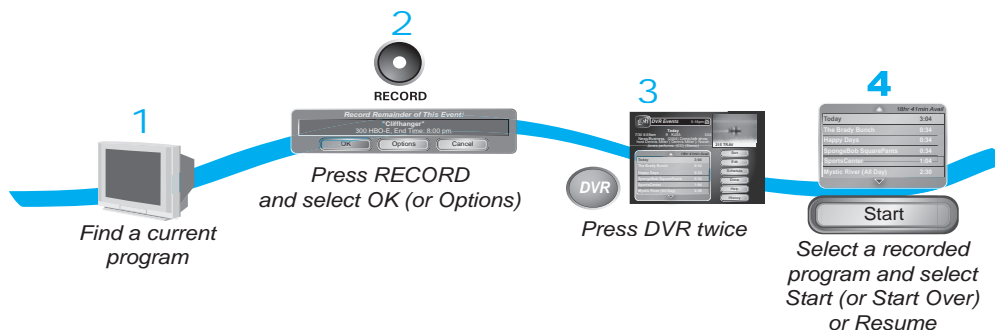
- 1 Select a program you want to record.
- 2 Press RECORD.
- 3 When the Record Remainder of This Event screen displays, select one of the following:
 - From TV1, select **TV2**.
 - From TV2, select **TV1**.

Note: When recording using Record Plus, it is possible for someone at the other TV to cancel your recording.

- 4 Select **OK** to begin recording now or **Options** to customize your recording settings. If you selected **Options**, see *Recording Options* on page 62 for your choices.
- 5 Repeat step 1.
- 6 Press **RECORD**. Customize your options as described on page 62.
- 7 Press **DVR** twice on the remote control. The My Recordings screen will open. You should see the two programs that are recording indicated by the red dot next to the listings.
- 8 Select a program that you recorded earlier (one that is not recording now), then select **Start** or **Start Over**. You should now be watching a pre-recorded program while the receiver is recording the other two programs.

Recording Events without Record Plus

While in Dual Mode with Record Plus disabled, you can set up the satellite receiver to record one program from both locations (TV1 and TV2) at the same time.



- 1 Find a program to watch.
- 2 Press **RECORD**. A message will display asking whether you want to record the remainder of the program. Select **OK** to begin recording now.
- 3 Press **DVR** twice. The DVR Event screen will open. You should see the program that is recording indicated by the red dot next to the listings.
- 4 Select a program that you recorded earlier (one that is not recording now), then select **Start** or **Start Over**. You should now be watching a pre-recorded program while the receiver is recording the other program.

RECORDING OPTIONS

When you set up a timer, you can choose from the following options:

- **Stop Recording Manually**—The receiver will record until you press STOP.
- **Extend End Time**—You can extend the stop time for the recording. This option is useful for programs that might run overtime, like sporting events or awards shows.
- **Create a Recurring Timer**—You can set up a timer like the one described in *Setting Up an Automatic Timer* on page 68.
- **Record the Entire Event**—The receiver stops recording at the end of the event. This selection is available only if the receiver was tuned to the channel at the beginning of the program.

Note: If you tune to a program after it starts, you can record only the part of the program after you have tuned to it.

GROUPING AND SORTING RECORDED PROGRAMS

- 1 Press DVR two times (or press DVR and select **My Recordings**).
- 2 Choose a group or sort option to help you quickly find the program you want to watch:
 - To group programs into folders, select **Group**, then select a **Group Option**.
 - To sort programs by name, date, or other categories, select **Sort**, then a **Sort Option**.

The My Recordings list re-arranges itself to match your sorting or grouping selection.



TIPS

- If you have a program paused, press PLAY to watch the program. Also, press PLAY to switch from forward or reverse to play.
- Press VIEW LIVE TV to catch up with the program as it's showing now.
- If you would like to store additional programs, you can connect your own compatible USB 2.0 hard drive and subscribe to the feature. See *External Hard Drive* on page 93 for more information.



QUESTIONS

- **How can I fast forward through commercials?** If you're watching a pre-recorded program or if you've delayed a live program, press SKIP FWD or FWD on your remote control. However, you cannot skip ahead while watching live TV.

Record Future Programs



Chapter

9

Setting Up and Using Timers

What you'll find in this chapter:

- **TIMERS AND RECORDINGS**
- **USING THE TIMERS LIST**
- **USING THE DAILY SCHEDULE**
- **SETTING UP AN AUTOMATIC TIMER**
- **SETTING UP A MANUAL TIMER**
- **SETTING UP A DISHPASS™ TIMER**
- **DELETING A TIMER**

TIMERS AND RECORDINGS

A timer is your instruction telling the satellite receiver the programs you want to view in the future. For most Digital Video Recorder (DVR) timers, you select a specific program on a specific channel, and tell the satellite receiver how often you want to record that program. DVR recordings are listed in the My Recordings screen, which you can find quickly by pressing DVR on the remote control.

Timer Types

There are three types of timers:

- **DVR**—Records an event onto your receiver's hard-disk drive for later viewing.
- **Auto Tune**—Automatically changes the channel for live viewing of the event.
- **Reminder**—Creates an on-screen reminder when the event is about to begin.
- **Ext**—Automatically changes the channel for live viewing of the event and sends commands to an external recording device (ERD) connected to your RCA-type or S-Video outputs. This option does not display unless you have enabled the feature using **ERD Setup** options in the Record Plus menu. See *Using Record Link* on page 59.

Timer Frequency

Deciding how often you want to watch a program will help you make the best choice:

- **All Episodes**—Records each time the selected program airs on that channel.
- **New Episodes**—Records current season programs each time they first occur on that channel.
- **Once**—Records a program one time only (good for movies, sporting events, etc.).
- **Weekly**—Records a program once a week, at the selected time, on that channel.
- **Daily**—Records a program once a day, at that time, on that channel.
- **Monday-Friday**—Records a program once a day, Monday through Friday, at the selected time, on that channel.
- **DishPASS**—Records the selected program on all channels (by default) or a specific channel, based on matching your specific criteria. See page 69 for details.

Timer Priorities

Priorities are used by the receiver to know which program you would prefer to record, if multiple timers are scheduled to start at the same time. For example, having six programs scheduled to record at the same time cannot be done on a dual-tuner receiver; therefore, the receiver will record only the two programs with the highest priorities.

- All timers have a priority that you can change at any time.
- The larger the number, the lower priority (for example, priority 1 is higher than priorities 2, 3, and 4).
- You can override a specific timer's priority with a one-time skip or by restoring it. Select a timer in the Daily Schedule, then you'll have an option to **Skip** or **Restore** for that timer (see page 67).

Timer Options

The Timer Options screen lets you set the following (not used on all options screens):

- **Protect Event**—to prevent your programs from being erased when the DVR fills up.
- **Set Resolution**—to set the timer to record only HD or only SD programs.
Note: When setting Dish**PASS** timers for programs available in both HD and SD, by default, the receiver will automatically select the HD program for recording.
- **Set Frequency**—to record only new episodes of a program. By default, all episodes of a Dish**PASS** event will be recorded.
- **Set Channel**—to select a specific channel. When setting manual timers, you select a channel from a scrolling list of all channels in your guide.
- **Start Early**—to begin a timed recording a few minutes earlier than its scheduled start.
- **End Late**—to continue recording after the program's scheduled ending time.
- **Set as System Default**—to use the Start Early and End Late settings for this event as the new defaults for future event timers.
- **Maximum Recorded Events**—to automatically delete the oldest unprotected recordings after a specified number of them are accumulated for this particular timer.
Note: This option is especially valuable for certain Dish**PASS** timers, which might otherwise fill up your DVR storage with too many episodes of a single program.

Timers List

Use the Timers List as described on page 67 to:

- View the general list of all event timers.
- Select a timer from this list to see a detailed listing with specific dates and times of upcoming timers for that program/event or Dish**PASS** search term(s).
- Set user-selected priorities for each event timer. See *Timer Priorities* on page 64.
- Create a Manual event timer.
- Create a Dish**PASS** timer.
- Select **Edit List** to edit an event timer.

Daily Schedule

The Daily Schedule lists the timers that are planned for today, the future (up to nine days, if applicable to your satellite system), and have occurred in the recent past. Use the Daily Schedule as described on page 67 to:

- Review today's timers. You can choose to skip a scheduled timer, or restore a timer that was not planned to occur, perhaps because of a conflict with another program. See *Timer Priorities* on page 64.
- Review future timers, up to nine days in advance, and make changes as necessary.
- Review past timers to see which occurred, and the reason why one did not, if applicable. See *Reasons Why Timers are Skipped* on page 66.

Reasons Why Timers are Skipped

If a timer is skipped, the reason is stated on the Timers List.

- **Priority**—This timer had a lower priority than other events being recorded at the time.
- **User**—A TV user chose to skip that timer.
- **Duplicate event**—There is already another timer which is set to record that program.
- **Event exists in DVR**—The program was already recorded and can be seen now in the My Recordings list.
- **Not a new episode**—Used for New Episode timers. Currently, a New Episode is one that has the current year listed in the associated Program Guide information.
- **Incorrect event**—For Weekly, Daily, and Monday-Friday timers. If the guide has a different event listed, then the timer will be skipped. For example, the event timer was set up as a Daily timer on a Saturday, but the specified program is broadcast only weekdays, so the timer will be skipped on the weekends.

When a Timer Starts a Recording

For two minutes before a timer starts a recording, the receiver may display a digital countdown on the TV screen. This symbol disappears when the program begins. While the symbol is displayed on your screen, you can do one of the following:



- Press the CANCEL button on your remote control to clear the symbol from the TV screen. This does not stop the timer from occurring.
- Press the INFO or SELECT button to see more information about the timer. If you do this, then you have the following choices:
 - Select **OK** to continue with the event timer, as is.
 - Select **Stop Timer** to stop the timer, or skip it one time.

Note: Pressing INFO about a timer event only works one time. Subsequently pressing INFO results in the current program's information being displayed in the normal way.

When the Receiver is Off

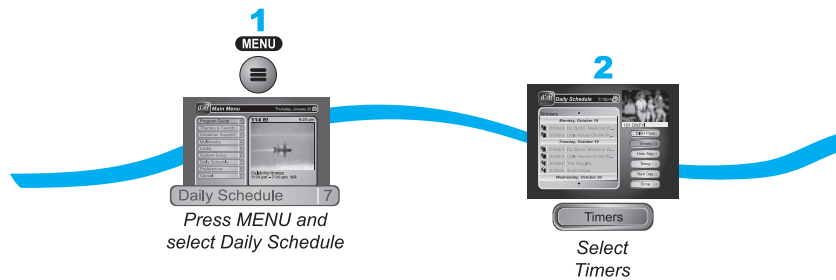
If the receiver is off when a scheduled event timer occurs, the receiver will:

- **DVR**—Remain off (in standby mode), but will record the event as scheduled.
- **Auto**—Turn on for the duration of the scheduled event.
- **Reminder**—Turn on at the scheduled time. After a period of time, if you do nothing, the receiver will turn itself off (that is, go into standby mode) again.
- **Ext.**—Turn on for the event duration and tells the connected external device to record.

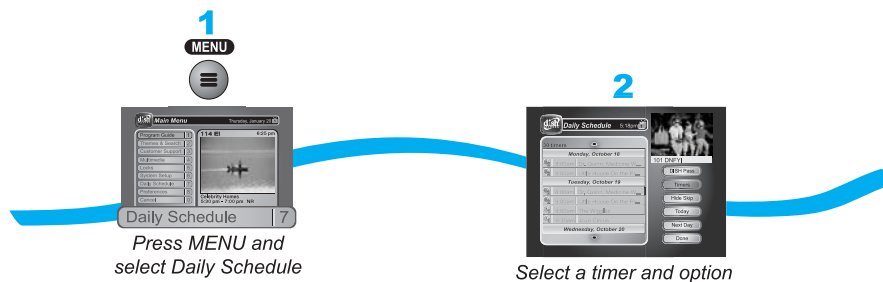
Special Considerations When Using Timers

- **For Locked Programs**—You must enter the receiver password before you can create an automatic timer. You can create a manual timer for a locked program without entering the password. However if you do this, when the timer starts, the receiver may display only an error or password-entry menu screen.
- **For Pay-Per-View Programs**—You must order a Pay-Per-View program or event when you create an event timer for it.
- **For Blacked Out Programs**—If you set a timer for a program or event that is blacked out in your area, then when the timer occurs, the receiver may only display an error.

USING THE TIMERS LIST



USING THE DAILY SCHEDULE



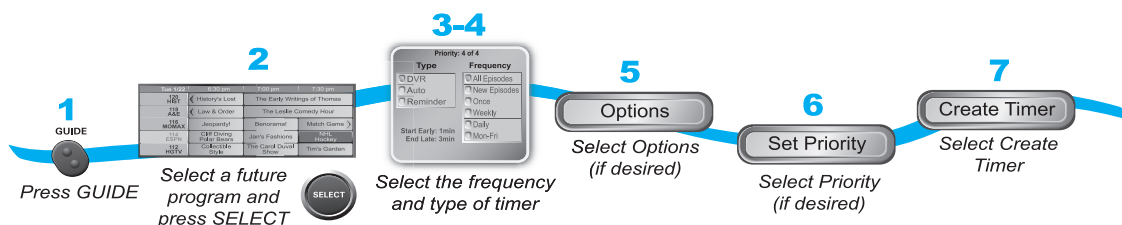
Use the ARROWS to select a future program if you want to Skip or Restore a timer. You can also choose to Protect it, or view the start early/end late settings.

- To change the start early/end late setting, select the event within the Timers List.
- If the program is included in a DishPASS timer, you cannot change the start early or end late times on an individual occurrence; it must be changed within the DishPASS timer, selected from the full event Timers List.
- Press PAGE UP to see the previous days' timers. Review these timers if you want to see the result of these timers (for example, if a timer recorded successfully or why it might have been skipped).

Chapter 9

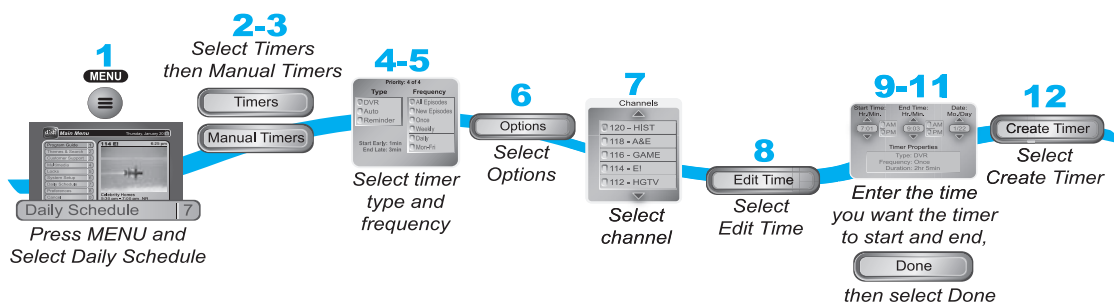
Setting Up an Automatic Timer

SETTING UP AN AUTOMATIC TIMER



- 1 Find a program or event to record in the future using the Program Guide or Browse Banner. The program can be a satellite delivered or over-the-air program (see page 116 for instructions on properly connecting an over-the-air antenna to your receiver).
- 2 Select a program or event in the future. The Create Timer screen is displayed.
- 3 Select one of the Timer Types (see page 64 for more details).
- 4 Select the Timer Frequency (see page 64 for more details).
- 5 Select any **Options** (see page 65 for more details), as applicable.
- 6 Select **Set Priority** if you would like to change the current priority of the event timer (see page 64 for more information).
- 7 Select **Create Timer** to finish making and save the new event timer.

SETTING UP A MANUAL TIMER



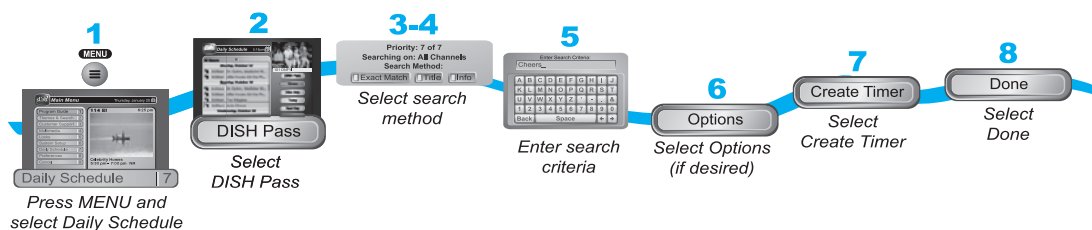
- 1 Press the MENU button and select **Daily Schedule**. You can also press the DVR button three times for quick access to the Schedule screen.
- 2 Select **Timers**.
- 3 Select **Manual Timer**.
- 4 Select one of the Timer Types (see page 64 for more details).
- 5 Select the Timer Frequency (see page 64 for more details).

- 6 Select any **Options** (see page 65 for more details), as applicable.
- 7 Select the channel (may be either satellite or over-the-air TV). Use the UP/DOWN ARROWS, PAGE UP/DOWN, or NUMBER PAD buttons to find the specific channel.
- 8 Select **Edit Time**.
- 9 Set the **Start Time** and **End Time**, including either AM or PM for each.
- 10 Set the **Date**.
- 11 Select **Done**.
- 12 Select **Create Timer** to save the new event timer.

SETTING UP A DISHPASS™ TIMER

DishPASS lets you create timers to record programs automatically based on results of your search criteria. When the DVR finds programs listed that meet your search criteria, it will automatically set a timer to record that program. As the Program Guide is updated, DishPASS will continue to find and record newly listed programs or events based upon your search criteria. Note that DishPASS only finds programs on satellite TV channels.

An example of how to use DishPASS might be that you saw a movie in a theater and you want to watch it again as soon as it is available on a movie channel. Use the **Exact Match** and **Title** options, and then type the exact title of the movie. If the movie is made available on a movie channel you subscribe to, the receiver will automatically set a one-time event timer to record that movie for you.



- 1 Press the MENU button and select **Daily Schedule**.
- 2 Select **DishPASS**.
- 3 Select your preferred Search Method:
 - **Title** - Search for programs or events by their titles.
 - **Info** - Search for programs whose descriptions or titles contain specified keywords.
- 4 Optionally, select **Exact Match** if you want to find exactly what you've entered in either the program title or info, when you select the **Title** or **Info**, respectively.

Chapter 9

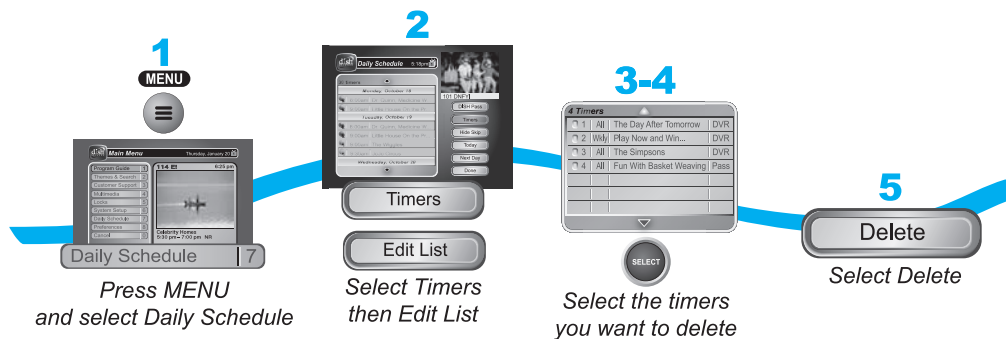
Deleting a Timer

- 5 Enter your search criteria. You can use the virtual on-screen keyboard, or you can use the letters above the NUMBER PAD buttons on the remote control (similar to texting on certain mobile phones) while the highlight is in the Enter Search Criteria field. See *Using Text Fields* on page 23 for instructions.
- 6 Select any **Options** as described on page 65, if applicable.
- 7 Select **Create Timer**. When the receiver has completed your search, the Timer Schedule screen will display the results.

Note: After entering your search words and selecting Create Timer, be sure to review the timers that DishPASS has created—some may not be what you are expecting. You can:

- Choose any selected events you want to Skip. Review timers for future events often.
 - Adjust your search terms and/or method. Select **Set Priority** to change the priority of your DishPASS. To adjust your search further, delete the unwanted DishPASS timer and try the following:
 - Change your DishPASS search term(s) to be more specific.
 - Select **Exact Match** with the **Title** or **Info**.
 - Choose DishPASS when you select a future program within the Program Guide, Browse Banner, or Search results. This will enter the program's exact title for you.
- 8 Select **Done** when finished with your new DishPASS timer.

DELETING A TIMER



- 1 Press the MENU button and then select **Daily Schedule**.
- 2 Select **Timers**.
- 3 Select **Edit List**.
- 4 Select the timers you wish to delete.
- 5 Select **Delete**. A pop-up window asks you to confirm your choice(s).
- 6 Select **Yes** on the pop-up screen. The timer(s) you selected are now deleted.



TIPS

- Make sure the Updates feature is enabled as described on page 101. By enabling this feature, the Program Guide will have the most up-to-date information, and can adjust or create timers accordingly.
- Weekly, Daily, and Monday-Friday timers move only if the program is within one hour earlier or four hours later than the original time the timer was set up. These timers will adjust their length if their program's time block is extended.
- Dish**PASS** recordings may fill the hard drive quickly. If you have other timers you know you don't want to be recorded over, choose **Protect** on those important programs.
- DVR Timers set for sporting events automatically end late by 60 minutes to allow for overtime. Change this setting in **Options** when you set up the timer.



QUESTIONS

- **Why is my receiver recording programs I didn't schedule?** A Dish**PASS** Timer may include more programs than you planned. If you'd like to refine your search, delete the Dish**PASS** Timer and start again as described on page 69.
- **Why did the receiver delete a program I recorded?** Your recording was unprotected. When the receiver's hard drive fills, it deletes the oldest unprotected recording. You can protect your recordings as described on page 65.
- **Where can I go to find out why the receiver didn't record something I scheduled?** Look at your Daily Schedule and refer to *Reasons Why Timers are Skipped* on page 66.

Chapter 9

Notes

Notes

Remote Control Setup



Chapter

10

Personalizing Your Remote Controls

What you'll find in this chapter:

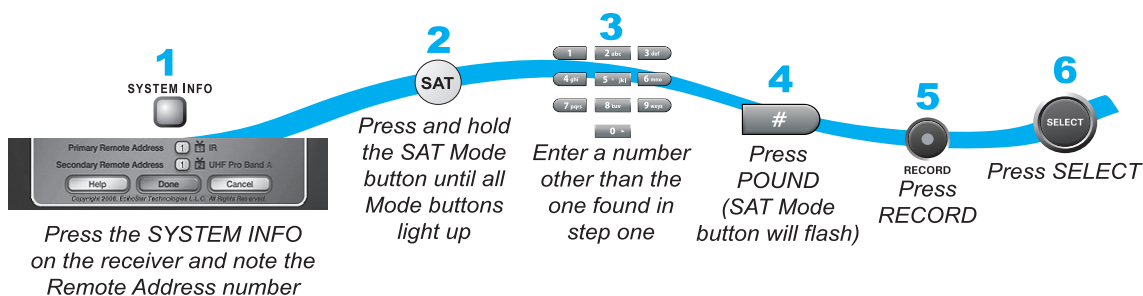
- **IMPROVING RECEIVER CONTROL**
- **CONTROLLING OTHER COMPONENTS**
- **THE RECOVER BUTTON**
- **SENDING DISCRETE POWER ON AND OFF**

IMPROVING RECEIVER CONTROL

These instructions help you improve your remote control settings to best operate your satellite receiver.

Changing the Address for Remote Control 2

Because UHF radio signals travel longer distances and can pass through walls, a neighbor's remote may be able control your receiver by mistake. To keep this from happening, you can change the remote address. Also, you can use these instructions to change the address on Remote Control 1.



- 1 Press the SYSTEM INFO button on the receiver's front panel. The System Information screen displays on the nearby TV and shows the current Remote Address.

Write down the Secondary Remote Address: _____

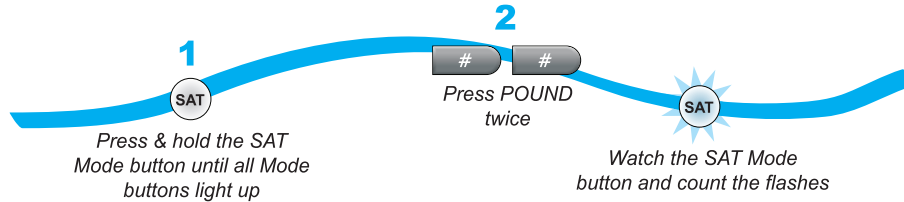
If you are changing the address for Remote Control 1, write down the Primary Remote Address: _____

- 2 Press and hold the SAT button on your remote control for about three seconds, until all of the mode buttons light up, and then release SAT.
- 3 Use the NUMBER PAD buttons to enter any number between 1 and 28, but *not* the one you wrote in step 1. If you wrote down an odd number in step 1, choose an even number; if you wrote down an even number, choose an odd number to enter here. See page 75.
- 4 Press POUND (#). If you entered the address correctly, the SAT mode button light will flash three times.

Write down the number you entered: _____

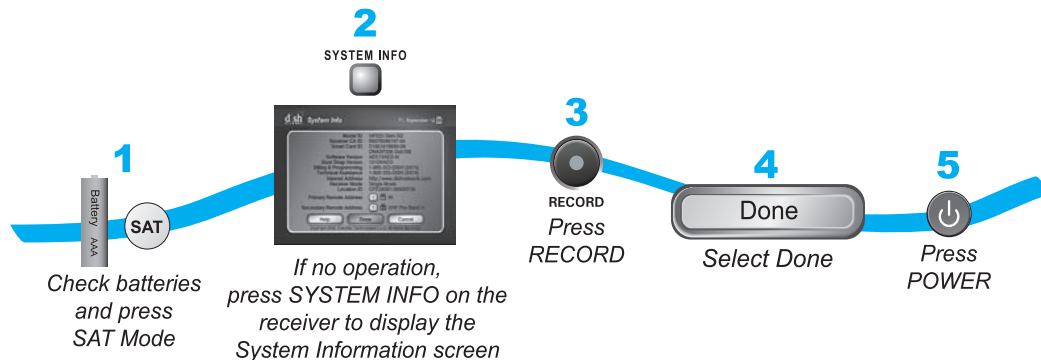
- 5 Press and release the remote control's RECORD button. Make sure the Remote Address you see on the System Information screen is the same as the one entered in step 3. If it isn't, the remote cannot control the receiver. If it *is* the same number, your remote is linked.
- 6 Press the SELECT button on the receiver's front panel (or on your linked remote control) to close the System Information screen.

Checking the Remote Control Address



- 1 Press and hold the SAT mode button a few seconds until all of the mode buttons light up, then release SAT.
- 2 Press POUND (#) twice. The SAT mode button will flash the same number of times as the address number (for example, three flashes means address 3).

Confirming Remote Control Operation



- 1 Make sure the remote control has fresh batteries installed and is in SAT mode.
- 2 Press the SYSTEM INFO button on the receiver's front panel to display the System Information screen on the nearby TV.
- 3 Press and release the RECORD button on the remote control:
 - **Remote Control 1**—The Primary Remote Address in the System Information screen changes to match the address preset in your TV1 remote control. Typically, the remote control for the nearby TV is set to IR only, unless you have received an IR/UHF Pro remote control replacement kit.
 - **Remote Control 2**—The Secondary Remote Address in the System Information screen changes to match the address preset in your TV2 remote control. Odd-numbered remote addresses will automatically use UHF Pro Band A, while even-numbered addresses will use UHF Pro Band B. If you have two UHF Pro remote controls in your home, ensure that one uses an odd-numbered remote address and the other an even-numbered address. If you have more than two DISH Network remote controls, then consult the SYSTEM INFO screen on each of the receivers to ensure that all the IR/UHF Pro remote controls use different remote addresses.
- 4 Select **Done** to close the System Information screen.
- 5 Press the POWER button on the remote control to turn the receiver on or off (standby).

Adjusting the Remote Control Antenna

Be sure to set the remote control antenna (back of the receiver) straight up so you can use the remote control from as far away as possible. Don't let the antenna touch anything.



If your UHF Pro Remote Control 2 isn't working well from far away, you may be experiencing interference from objects near your receiver. To improve your remote control's range, try the following:

- Place the receiver higher than all of the other equipment in your cabinet or entertainment center.
- Provide space above the receiver so that the remote control antenna can be installed pointing straight up. If you cannot install the antenna straight up, tilt the antenna at no more than a 30° angle from vertical.
- Place the remote control antenna outside the entertainment center by using an optional coaxial cable to connect the antenna to the receiver.
- Try moving the receiver itself to other suitable locations.
- Move any nearby over-the-air antennas away from the remote control antenna. Do not sit an over-the-air antenna on top of your receiver.
- Install a UHF attenuator. See *Installing a UHF Attenuator* on page 77 for details.

Changing the UHF Frequency Using the A/B Switch

Your TV2 remote control has a switch to change from sending both IR and UHF signals to sending only IR. The switch comes preset to the UHF position, which sends both types of signals, but if you have a clear line of sight to the satellite receiver you're controlling with this remote, then you can change the setting to the IR position to lessen the likelihood of another UHF remote interfering with yours. This is applicable in Dual User mode for TV2.

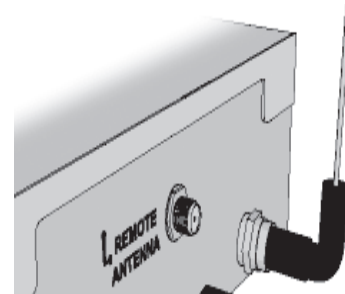
- 1 Remove the battery cover from the remote control.
- 2 Use a small screw driver or a paper clip to carefully change the switch setting (typically from UHF, the default, to IR)
- 3 Put the battery cover back onto the back of the remote control.
- 4 Use the SYSTEM INFO button on the receiver's front panel to access the System Information screen.
- 5 Press and release the RECORD button on the remote control.
- 6 Make sure the System Information screen shows the correct information:
 - Switch position **UHF—IR/UHF Pro**
 - Switch position **IR—IR only**.



Installing a UHF Attenuator

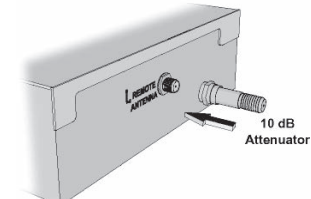
Unwanted UHF signals may interfere with signals from the remote control to the receiver. To prevent such interference, you can install a 10 dB attenuator (available from many consumer electronics parts stores). Adding this attenuator will help keep out stray UHF signals, but it will also cut down how far away you can use the remote control.

- 1 Remove the remote control antenna from the **REMOTE ANTENNA** input on the receiver's back panel.

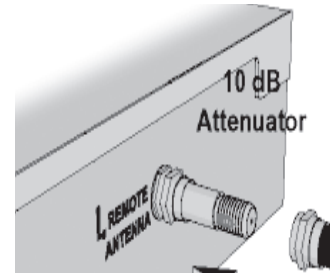


Example of Receiver Back Panel

- 2 Attach a 10 dB attenuator to the **REMOTE ANTENNA** input.



- 3 Attach the remote control antenna to the attenuator.



CONTROLLING OTHER COMPONENTS

To use the remote to control other devices (such as a TV, VCR, DVD player, tuner, amplifier, or DISH Network satellite receiver), you must first program it to control these other devices. You can do this by either following the instructions in *Setting Up Using Device Code Tables* on page 81, or the *Setting Up Using Device Codes Scan* procedure described on page 82.

Remote Control Modes

Use the remote control's mode buttons, SAT (satellite receiver), TV (for a TV), VCR (for a VCR or a DVD player), and AUX ("auxiliary," for a second TV, a VCR, a tuner, an audio amplifier, or a second DISH Network satellite receiver) to set the remote control to the right mode for the device. To change the mode, press the button for the device you want the remote to control. The mode button lights for two seconds to show you've set the remote to that mode.

Limited Mode

You can program your remote control in Limited Mode to keep from accidentally changing the channel on your TV or VCR. When you use the remote to control your TV in Limited Mode, you will only be able to use POWER, MUTE, and VOLUME. Also, when you use the remote to control your VCR in Limited Mode, you will only be able to use POWER and the VCR function buttons.

Turning Limited Mode On and Off

- 1 Press and hold the mode button (for example, TV) until all of the mode buttons light. Release the mode button.
- 2 Press:
 - PAGE UP to turn Limited Mode on.
 - PAGE DOWN to turn Limited Mode off.
- 3 Press POUND.

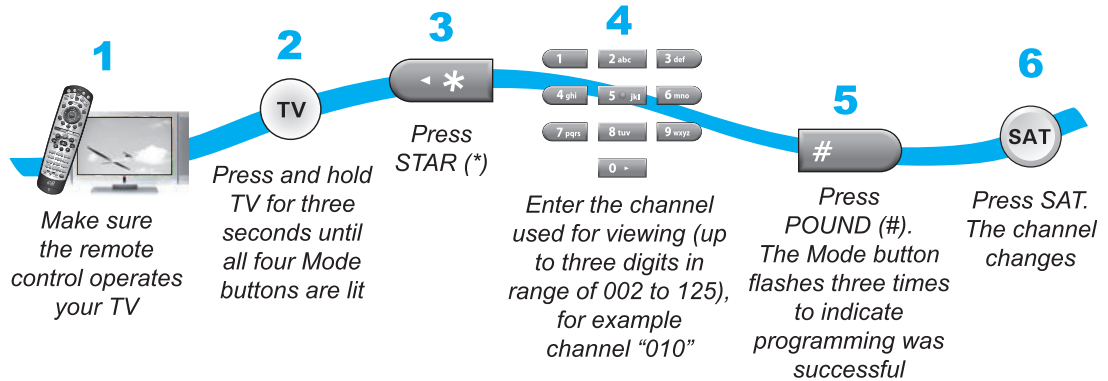
Note: Limited Mode is not used if audio amplifiers are programmed on the AUX button.

SAT Auto-Tune

Most snowy, blue, or black screen issues occur because the TV is set to the wrong channel. Using the SAT Auto-Tune feature helps prevent that issue from occurring on TVs connected to the receiver's modulated output (usually TV2). Use SAT Auto-Tune to program the correct TV channel for satellite viewing into the DISH Network remote control. When the SAT button is pressed, the remote sends the programmed channel to the TV.

This feature is enabled by default; however, if you want to use this feature, the channel must be programmed by following these steps.

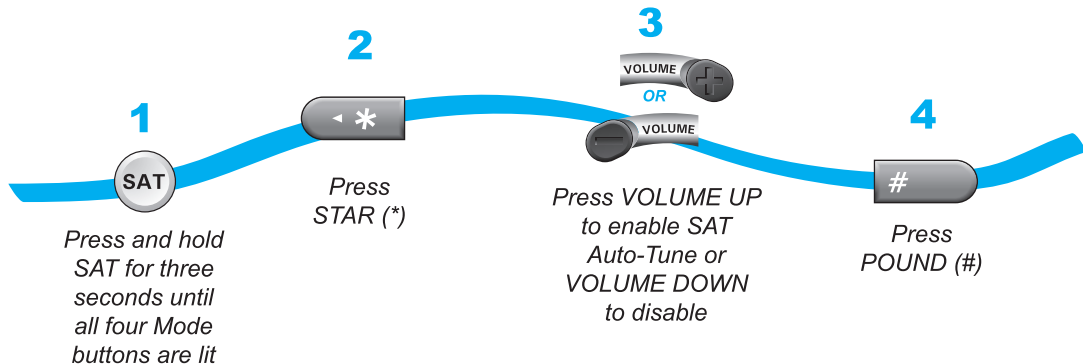
Setting a SAT Auto-Tune Channel



- 1 Make sure the remote control has been programmed to operate your TV.
- 2 Press and hold the TV button for three seconds until all four device mode buttons are lit.
- 3 Press the STAR (*) button on the remote control.
- 4 Using the NUMBER PAD on the remote control, enter the channel number used for viewing (up to three digits in the range from 002 to 125), for example channel "010."
- 5 Press the POUND (#) button on the remote control. The TV mode button flashes three times to indicate programming was successful.
- 6 Press the SAT mode button to test the new Auto-Tune feature. The TV channel changes.

Enabling and Disabling SAT Auto-Tune

Note: SAT Auto-Tune is enabled by default; however, the channel must be set (see *Setting SAT Auto-Tune Channel*).



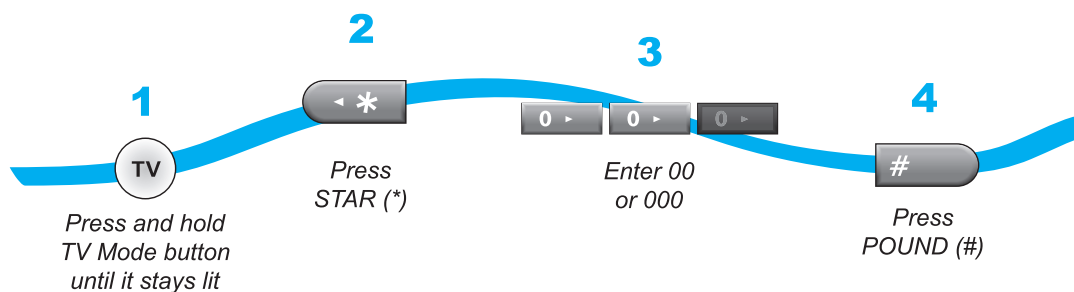
- 1 Press and hold the SAT mode button for three seconds until all four mode buttons are lit.
- 2 Press the STAR (*) button on the remote control.

Chapter 10

Controlling Other Components

- 3 Press VOLUME UP to enable SAT Auto-Tune or VOLUME DOWN to disable the feature.
- 4 Press the POUND (#) button on the remote control.

Removing the SAT Auto-Tune Channel



- 1 Press and hold the TV mode button for several seconds until it stays lit.
- 2 Press the STAR (*) button on the remote control.
- 3 Enter the digits 00 or 000 using the NUMBER PAD.
- 4 Press the POUND (#) button on the remote control.

Using SAT Auto-Tune with a VCR

If you have a VCR connected to the remote TV, as described in *Connecting a VCR to the Remote TV*, then you can use the SAT Auto-Tune feature with the VCR tuner.

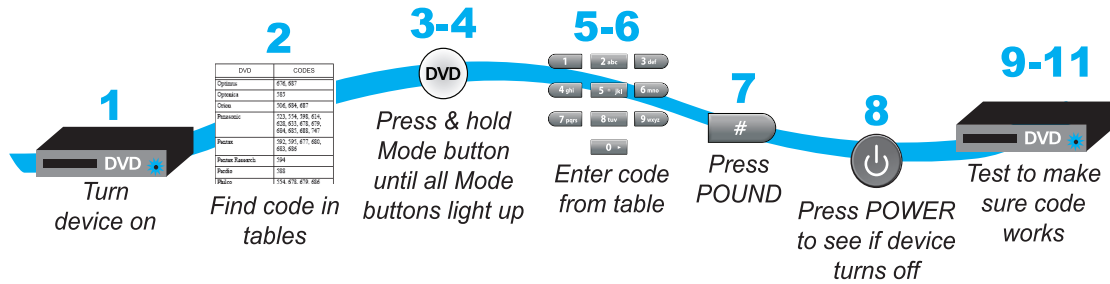
Make sure the remote control has been programmed to operate your VCR (in DVD mode, not in the AUX device mode), and then follow the instructions for *Setting a SAT Auto-Tune Channel* on page 79. In these instructions, use the DVD/VCR mode instead of TV mode. Likewise, you may follow the instructions for *Removing the SAT Auto-Tune Channel*, except use the DVD/VCR mode button instead of the TV mode button in the first step.

Combination Devices

If you are programming the remote to control a combination device, such as a TV/VCR or a TV/DVD, program the remote control in one mode (TV), and then repeat the procedure in the other mode. For example, to program the remote to control a TV/VCR using codes 622 815, follow the instructions to program the remote in TV mode using code 622, and then repeat the instructions to program in DVD mode to control the VCR using code 815.

Setting Up Using Device Code Tables

Set up the remote to control other devices using the device codes listed on page 137. In the instructions below, the column on the left contains the instructions and the column on the right provides additional information.



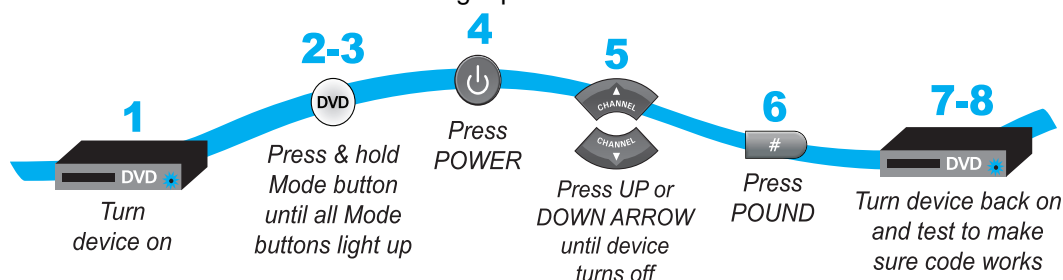
Instructions

Additional Information

- | | |
|---|--|
| <ol style="list-style-type: none"> 1 Turn the device on. 2 Find the brand name of the device in the tables starting on page Codes First Left. 3 Press and hold the mode button until all the other mode buttons light up, then release the button. The mode button flashes. 4 <i>For AUX mode only.</i> Press 0 for a TV, 1 for a VCR, or 2 for a tuner or amplifier. 5 Enter one of the three-digit device codes from the table using the number buttons. 6 If you want to program Limited Mode, press 1. If not, skip to step 7. 7 Press POUND (#). 8 Press POWER to turn off the device. If the device does not turn off, go to step 10. 9 Turn the device back on and try some other buttons to make sure they work. If the code works for other buttons, stop here. 10 If the code doesn't work, repeat steps 3 through 9 with another device code from the tables. 11 If you can't find a code that works, try <i>Setting Up Using Device Codes Scan</i> that follows. | <p>Use the device's front panel buttons or its remote control.</p> <p>If the brand isn't listed, see <i>Setting Up Using Device Codes Scan</i> on page 82.</p> <p>For example, for a TV, hold the TV mode button until all of the other mode buttons light. When you let go, TV will flash.</p> <p>If you're not programming in AUX mode, skip to step 5.</p> <p>The three-digit device code is for the brand name of your device that you found in step 2.</p> <p>See Limited Mode for more information.</p> <p>If you entered the code correctly, the mode button flashes three times.</p> <p>If the code works, the device should turn off.</p> <p>Sometimes POWER works when other buttons don't. If in Limited Mode, try VOLUME or MUTE.</p> <p>Try every code listed for your brand until one works for your device.</p> |
|---|--|

Setting Up Using Device Codes Scan

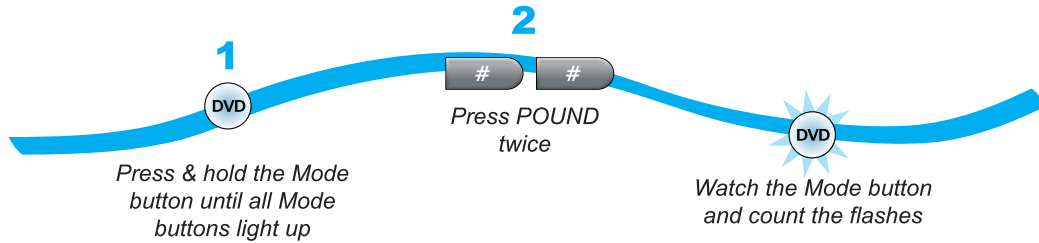
If the code for your device is not listed in the tables starting on page 137 or if you could not find a code that worked for your device, use this procedure to scan the remote control's memory for the device code. In the instructions below, the column on the left contains the instructions and the column on the right provides additional information.



Instructions	Additional Information
1 Turn the device on.	Use the device's front panel buttons or its remote control.
2 Press and hold the mode button until all the other mode buttons light up, and then release the button. The mode button flashes.	For example, hold the TV mode button until all of the other mode buttons light. When you let go, TV will flash.
3 <i>For AUX mode only.</i> Press 0 for TV, 1 for VCR, or 2 for a tuner, or amplifier. Then press the STAR (*) button.	This step is for programming the type of device that will be programmed in AUX mode. If you're not programming in AUX mode, skip to step 4.
4 Press POWER.	This puts your remote in the scan mode.
5 Press the UP or DOWN ARROW repeatedly until the device turns off.	As you press the UP or DOWN ARROW, the remote tries each code in the memory to see if it can turn off your device. When the device turns off, you have found a code that might work. Note: The mode button for the device will flash rapidly eight times when you've scanned all the codes for that device.
6 Press POUND (#).	The mode button flashes three times if you have entered the code correctly, and stores the code you found.
7 Turn the device back on and try some other buttons to make sure they work.	Sometimes POWER works when other buttons don't. If using Limited Mode, try VOLUME or MUTE.
8 If necessary, repeat this procedure until you've tried all the codes.	You may need to repeat the scan to find the best code for your device.

Checking the Device Codes

Use these steps to find the device code you've set for each remote control mode (TV, VCR, and AUX).



Instructions

- 1 Press and hold the mode button until all the other mode buttons light up, and then release the button. The mode button flashes.
- 2 Press the POUND (#) button twice. Watch the mode light to determine your code. The mode button flashes the number for each digit of the device code, with a pause between the groups of flashes. A quick flash is for zero.

For AUX mode: The first group of flashes tells you what the AUX mode controls. A quick flash (zero) before the three-digit code is for a TV, one regular flash is for a VCR, and two flashes is for a tuner, or amplifier.

For a satellite receiver programmed in AUX mode: The AUX mode button will flash the same number of times as the address number.

For Limited Mode: If you have programmed a TV or VCR in Limited Mode, the mode button flashes once at the end of the flash sequence.

Additional Information

For example, hold TV until all of the other mode buttons light. When you let go, TV will flash.

For example, if the code is 570, the mode button flashes five times, pauses, flashes seven times, pauses, and flashes once quickly.

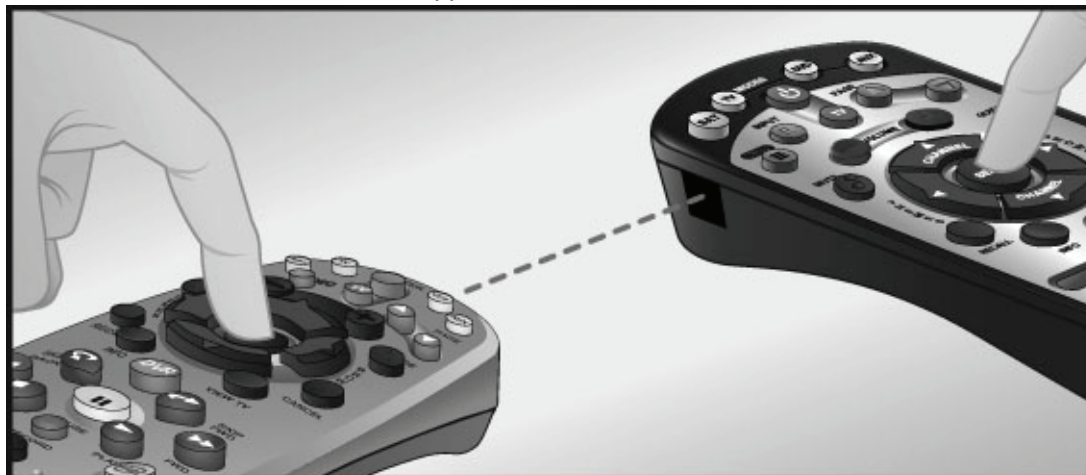
For example, if the TV code is 570, the AUX mode button flashes once quickly (indicating 0 for TV), pauses, flashes five times, pauses, flashes seven times, pauses, and flashes once quickly.

For example, if the receiver address is 3, the AUX mode button flashes three times.

For example, if the TV code is 570, the AUX mode button flashes once quickly (indicating 0 for TV), pauses, flashes five times, pauses, flashes seven times, pauses, flashes once quickly, and then flashes once (indicating Limited Mode).

Setting Up by Learning from Another Remote

After you have programmed your DISH Network remote to control your devices (in TV, DVD, and/or AUX modes), you may find not all of the commands used by the devices' original remote controls function as you expect. The learning function of your new DISH Network remote control can support these commands.



The remote control can learn commands in two ways:

- 1 You can follow the instructions for using device codes to program a specific mode, and then learn commands that add new or overwrite existing functions of the remote control's buttons in this mode. For this type of learning, any remote control button without a learned command keeps the pre-existing command (if any) for that programmed device code.
- 2 Each button on this remote control can learn a command from the equipment's original remote control. For this type of learning, any remote control button without a learned command will have no function for that programmed device.

To "teach" your DISH Network remote control buttons specific commands for your devices, complete the following:

Instructions	Additional Information
1 Ensure the the desired remote address is programmed to the DISH Network remote.	See "Checking the Remote Control Address" on page 75.
2 Place both your DISH Network remote and the original equipment's remote control on a flat, stable surface.	Holding either remote control in your hand may cause learning to fail.
3 On the DISH Network remote, press and hold the mode button for your equipment for about three seconds until all the mode buttons light up, and then release it.	Your selected mode button will blink.

4 To start learning commands for this mode:

- If you've found a code for that device, first program the code. Now press and release RECALL, then press and hold the RECORD button for about three seconds.
- If you have not programmed a code for that device, press and hold RECORD for three seconds.

To find and program the device code, use the instructions for *Setting Up Using Device Code Tables* or *Setting Up Using Device Codes Scan*.

The device mode button that you selected remains lit while learning.

5 Point the front of the original device remote to face the small square (IR window) on the front, left-hand side of the DISH Network remote control, as shown on page 84.

6 On the DISH Network remote control, press the button you want to teach.

7 On the original device's remote control, press and hold the button for the command that you want learned.

- If the DISH Network remote learns the command, the device mode light blinks off and then back on.
- If the mode light blinks three times or remains lit, the DISH Network remote did *not* learn the command.

You may need to try pressing the button on the original device's remote several times for the DISH Network remote to learn the command.

8 After a button has learned a command successfully, repeat step 6 and step 7 until all commands you want have been learned.

9 To end the learning sequence:

- Press one of the mode buttons on the DISH Network remote. This saves all the commands for that mode, and exits learning to return to normal remote control operation.
- To cancel learning, do not press any buttons on either remote control for at least 30 seconds. The DISH Network remote control times out of learning and returns to its normal operation. Note that **no learned commands are saved** if the DISH Network remote control times out before completion of learning.


The learning sequence also ends if the remote:

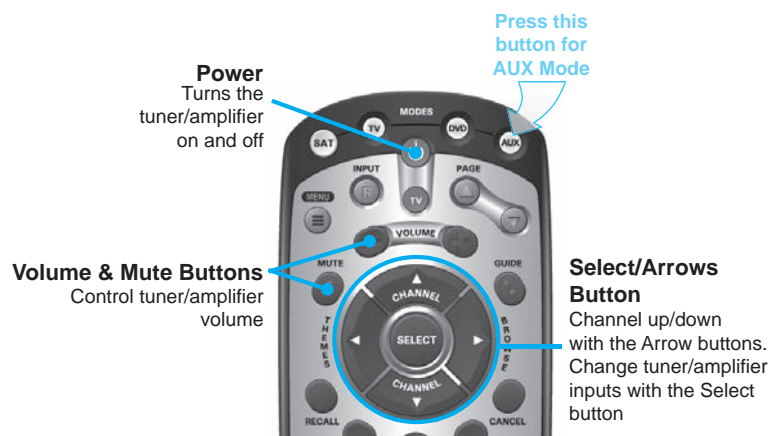
- Runs out of memory for learned commands, whereupon it saves the commands you have learned for equipment in this mode, exits learning and returns to its normal remote control operation. Then the DISH Network remote cannot learn any additional commands.
- Batteries are too low for learning, when all the mode buttons blink quickly eight times. Learning ends **with no learned commands saved**, and the DISH Network remote control returns to its normal operation. Change the remote's batteries.

Controlling a Tuner or Amplifier

Use the following remote control buttons to control a tuner or amplifier. When the remote control is set up as described on pages 78 and 86, press the AUX mode button to set the remote to AUX mode. The AUX mode button will stay lit for two seconds to show you've set the remote to AUX mode. Make sure to keep the remote in AUX mode to use the following buttons.

AUX Mode

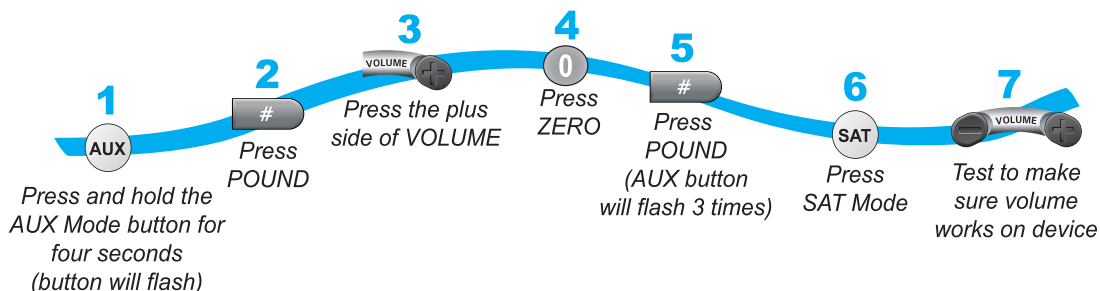
To use the features described in this section, make sure you are in AUX mode by pressing the AUX Mode button. 



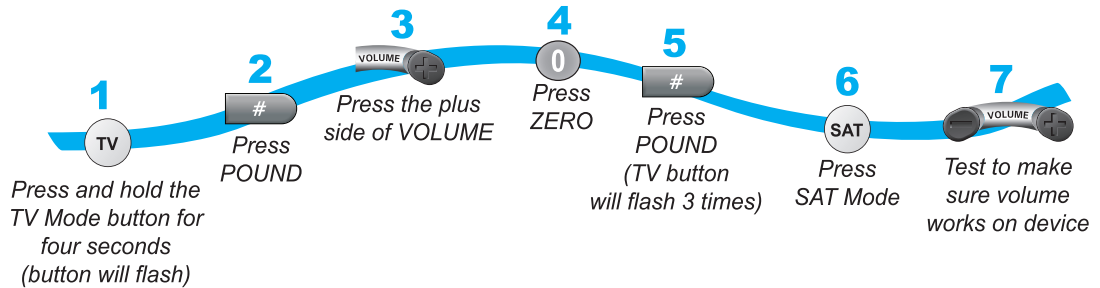
Switching Between TV and Tuner/Amplifier Volume Adjustment

When the remote control is setup to operate your TV, the VOLUME and MUTE buttons will adjust your TV volume. If you prefer the volume and mute functions of the remote control to adjust the volume of a remote-controllable audio tuner or amplifier instead of the TV, this capability can be set up using the AUX mode of the remote control.

To set the remote to adjust the tuner/amplifier volume (steps 1-5 set up the remote and steps 6-7 make sure the remote is set up correctly):



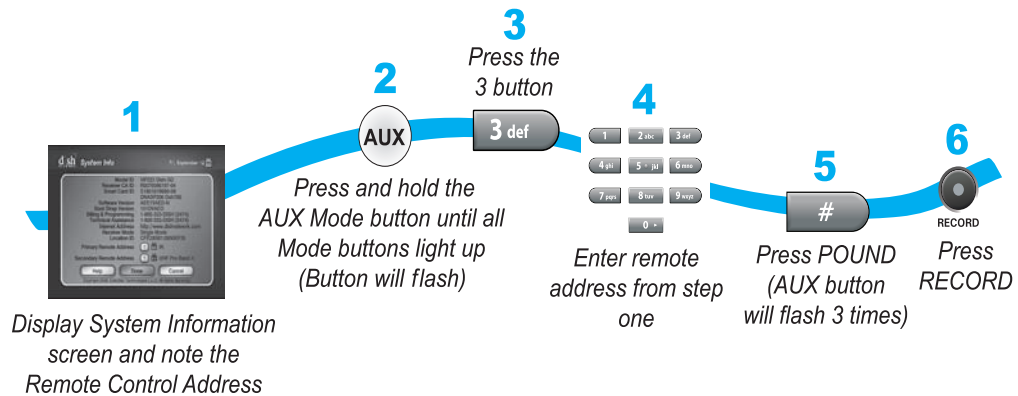
To set the remote back to adjust the TV volume (steps 1-5 set up the remote and steps 6-7 make sure the remote is set up correctly):



Programming to Control a Second Satellite Receiver

If you have another DISH Network satellite receiver installed, you can use this remote in AUX mode to control it along with your new receiver. When you program the remote to control this other receiver, the remote will send out IR and UHF (not UHF Pro) signals to the receiver. You can program the remote to control any other DISH Network satellite receiver, except for the following:

- You cannot control TV2 programming on a DISH 322, ViP222, ViP222k, ViP622 DVR, ViP722 DVR, ViP722k DVR, DISH Player-DVR 522, 625, and 942 receivers
- The DishPlayer 7100/7200 receiver cannot be controlled by current-model remotes.



- Turn on the other receiver and use the front-panel button to display its System Info screen. Write down the receiver's address: _____
- Using your new DISH Network remote control, press and hold the AUX mode button until all the other mode buttons light up, and then release AUX. The AUX mode button flashes.
- Press the 3 button on the remote control's NUMBER PAD.
- Continue using the NUMBER PAD on the remote to enter the address you wrote in step 1.
- Press the remote control's POUND (#) button. The AUX mode button blinks three times.
- Press RECORD and ensure the remote control's address matches the address displayed.

THE RECOVER BUTTON

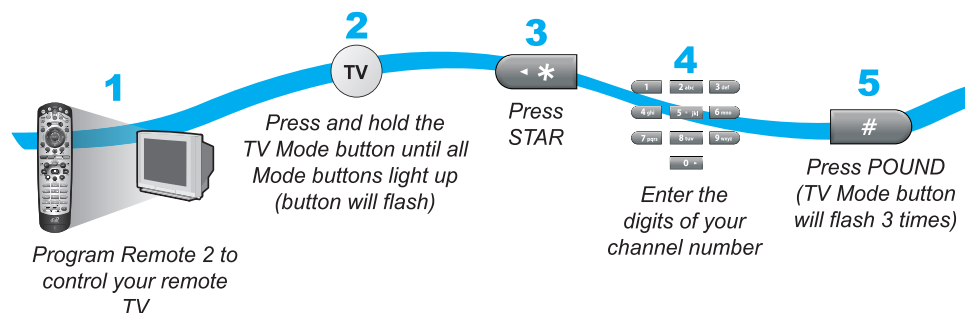
Use RECOVER if you have a snowy, all blue, or black screen on your TV and cannot get the picture back from your satellite receiver. When you press the RECOVER button as described, the remote control sends commands to your TV to change channels or video inputs to get back to watching satellite programming. This procedure works only if you have accidentally changed the TV channel or video input. It does not recover lost satellite TV signal (See *Troubleshooting* on page 124 for more information).

Note: The remote must be programmed to control the TV (and VCR, if applicable) in order for the RECOVER feature to work as described.

Note: The RECOVER feature will first try to tune your TV to channel 3, then to channel 4, and then change to other video inputs with each press of the RECOVER button. You may need to press the RECOVER button up to 30 times to recover your satellite TV video. If RECOVER has been programmed to use a specific channel, then RECOVER will tune the TV to this specific channel first (for example, to channel 60).

Programming the Recover Button for Remote Control 2

When your Remote Control 2 is shipped from the factory, the RECOVER button is set up to restore satellite TV viewing by tuning your TV (or VCR) to channel 3 or 4, and other input(s). To use RECOVER with your remote TV (or VCR), you need to program RECOVER with the specific three-digit number channel that you use to watch TV2 programming. (For two-digit number channels, use a zero first. For example, enter channel 60 as 060.) The following instructions describe how to program the RECOVER button to tune your remote TV (or VCR) back to a selected TV channel.



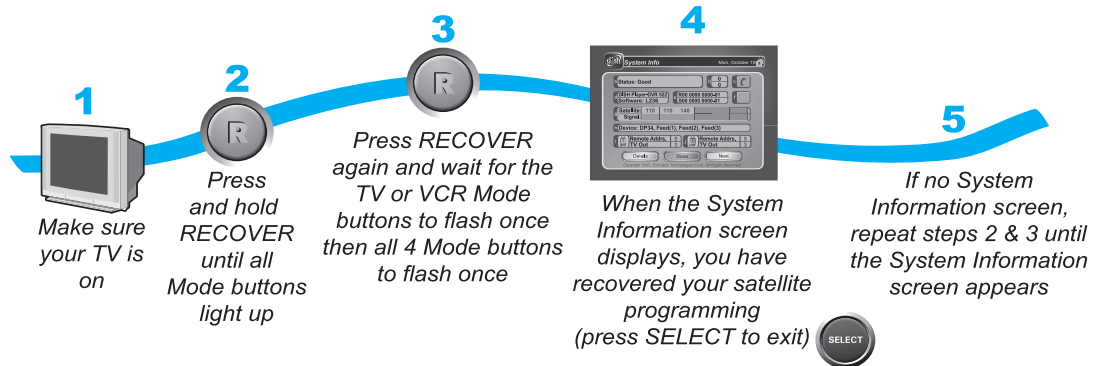
Using the Recover Button

The following setup is required to use RECOVER:

- The remote control must be set up to control the TV and, if installed, also the VCR.
- If a VCR is installed, then it must be connected to the system as shown on page 115.

Sending Discrete Power On and Off

- On a remote TV, RECOVER must be programmed to tune your remote TV to the specific channel to receive TV2 programming (for example, channel 60), using the instructions on page 88.

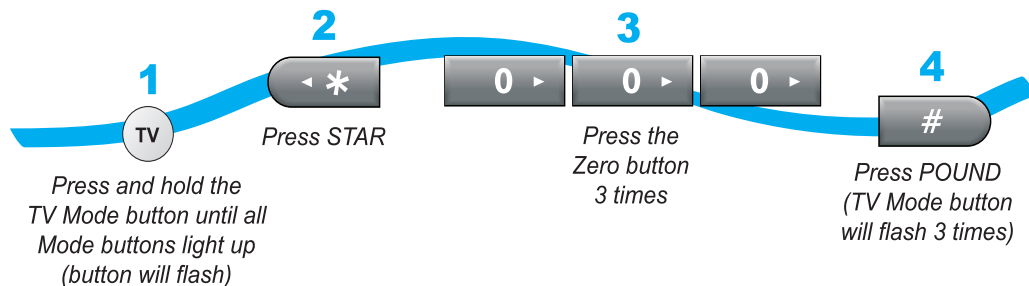


Note: Press any remote-control button other than RECOVER to end this procedure.

Note: If RECOVER is not programmed to a specific channel, RECOVER will first try to tune your TV to channel 3, then channel 4, and then other video inputs with each press of RECOVER. You may need to press RECOVER up to 30 times to recover your satellite TV video. If RECOVER is programmed to a specific channel (see page 88), RECOVER will tune the TV to the specific channel (for example, channel 60).

Removing the Recover Button Channel Programming

The following instructions describe how to reset RECOVER to restore satellite TV viewing by tuning your TV (or VCR) to channel 3, 4, and other inputs.

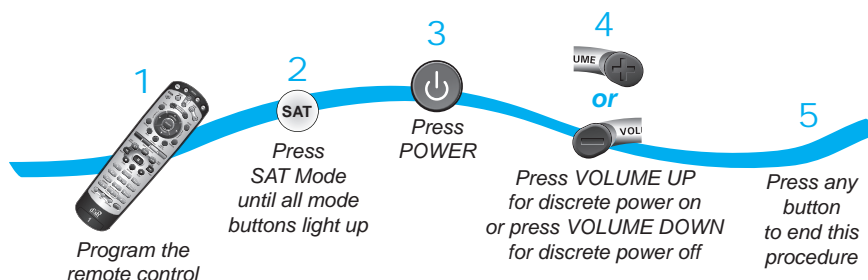


SENDING DISCRETE POWER ON AND OFF

Installers use remote control discrete power on and power off IR commands when programming macro commands into universal remotes. Using an on-only or off-only command is more effective than a toggle on/off command when trying to make sure the

Tips

satellite receiver is reliably in one state or the other. To use discrete power commands, complete the following:



TIPS

- If using a specific channel for TV2 (for example, channel 60), TV2's remote control must be programmed with a TV2 channel before you can use RECOVER.
- Place the channel sticker on the remote TV and write down the channel you use to watch DISH Network programming. The stickers are inside the front cover of this guide.
- If you don't want to accidentally change channels on your TV or VCR, place the remote control in Limited Mode, as described on page 78.
- Make sure you have a remote control antenna connected so you can use Remote Control 2. See page 17 for instructions.



QUESTIONS

- **My remote doesn't control my receiver or other components. What should I do?**
 - Ensure the remote control is in the correct mode (page 78).
 - Check the batteries (page 17).
 - Check the remote control address (pages 75 and 83).
 - Check the remote control antenna (page 17).
 - Adjust the remote control antenna (page 76).
- **Why does my receiver change channels or display menus at random?** Your neighbor may have their remote control set on the same address. Change the address on your remote control and receiver as described on page 74. If that doesn't help, you may have to install a UHF attenuator as described on page 77.

Receiver Customization



Chapter



Personalizing Your Satellite Receiver

What you'll find in this chapter:

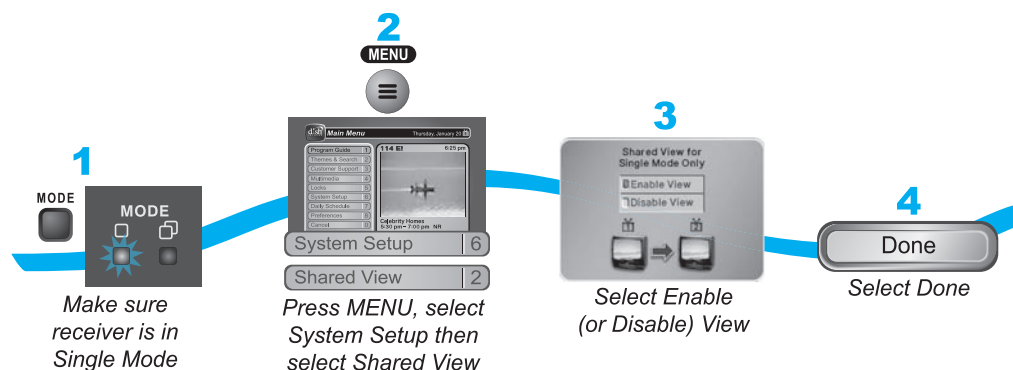
- **USING SHARED VIEW**
- **MODULATOR SETUP**
- **USING MULTIMEDIA**
- **USING CALLER ID**
- **CUSTOMIZING THE GUIDE AND CHANNEL LISTS**
- **CHANGING LANGUAGES**
- **USING CLOSED CAPTIONING**
- **USING DOLBY® DIGITAL SURROUND SOUND**
- **RESETTING TO FACTORY DEFAULTS**
- **SCHEDULING RECEIVER UPDATES**
- **INACTIVITY STANDBY**

Chapter 11

Using Shared View

USING SHARED VIEW

Shared View is a feature of Single Mode that lets you activate the TV2 audio and video outputs to display the same programming as the TV1 outputs. While using this feature, both Remote Control 1 and Remote Control 2 for your satellite receiver can control what is displayed on all TVs connected to the system. This feature is available only in Single Mode.



Note 1: Make sure you are using Remote Control 1 and TV1 because you cannot enable or disable this feature using Remote Control 2.

Note 2: If you do not want to display programming on any other TV besides TV1 and you do not want Remote Control 2 to control the receiver, select **Disable View**. After you select **Done**, TV2 will show a screen that says Shared View is currently disabled.

MODULATOR SETUP

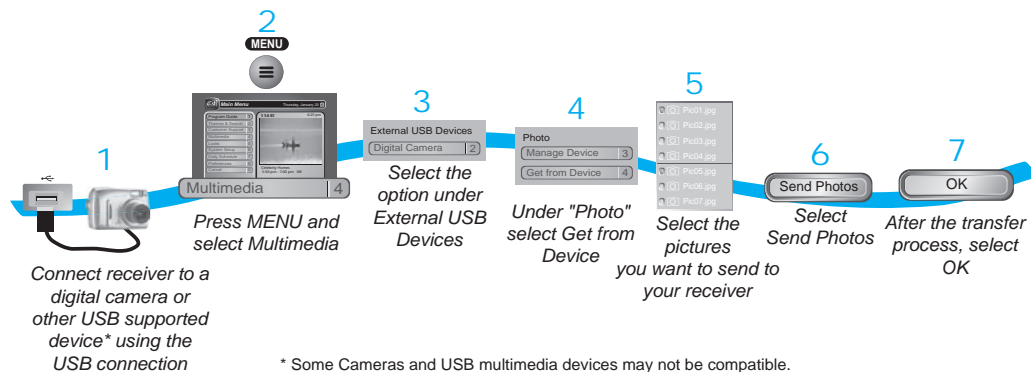
If you have TV1 and TV2 connected to the satellite receiver with coaxial cables (see page 107), you can decide which channel you'd like to use to view your DISH Network programming. If you have the system locked, then you'll have to enter the password to enable TV1's output on this screen. Make sure that your TV can tune to the channel number you pick before you saved changes to the settings on this screen.

USING MULTIMEDIA

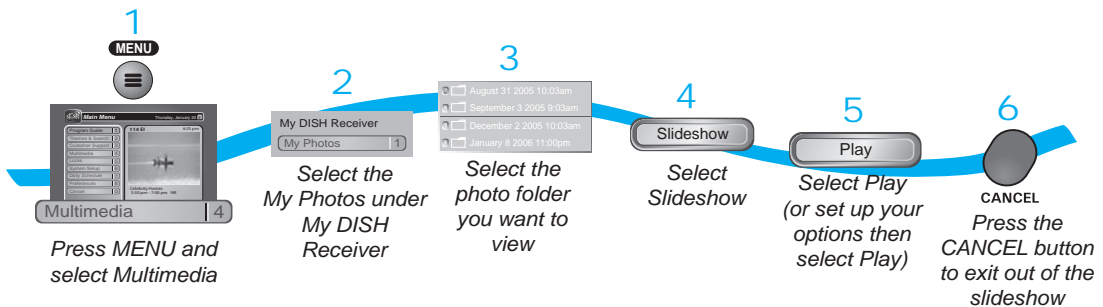
Photos

Copy photos from select digital cameras and storage devices to the receiver's DVR hard drive for viewing on the connected TV (options vary by receiver model). Now you don't have to pass photos around or have a crowd of people hover around your digital camera.

Transferring Photos to Your Receiver



Viewing Photos on Your Receiver



External Hard Drive

You can expand the storage capacity of your receiver's DVR by connecting a compatible, external USB 2.0 hard-disk drive (HDD). With the Archiving feature activated on your account (fees may apply), you can transfer programs from the receiver to your external storage device, and play back programs directly from a connected external drive.

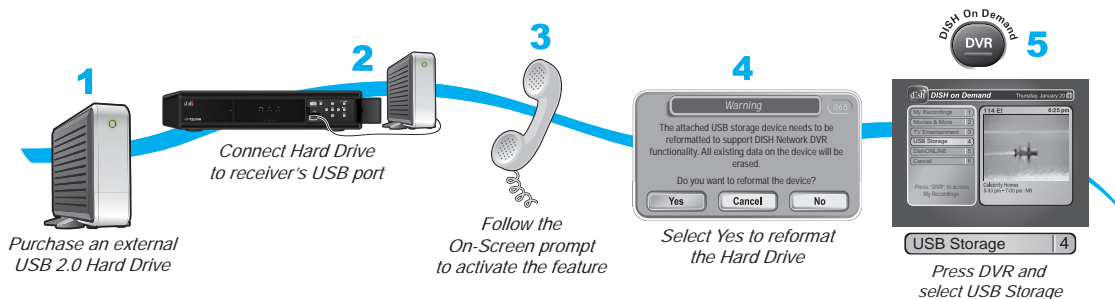
To choose a compatible external hard-disk drive, consider the following:

- The hard-disk drive must have a USB 2.0 data connection.
- The capacity of the hard drive should be between 40GB and 750GB.
- Using a hard-disk drive with an external power supply is recommended. External hard drives powered only by the USB cable may not function properly with your receiver.
- Do-it-yourself expansion kits and expandable storage racks may not be compatible.

Chapter 11

Using Multimedia

- Only hard drives that are single-disk units currently are supported.
- Dedicate the hard-disk drive for use only with your DISH Network receiver; do not use the drive for any other purposes, such as the backup and storage of computer files.



To use the external hard drive feature:

- 1 Purchase a USB 2.0 hard-disk drive from a consumer electronics retailer.
- 2 Connect the drive to one of the receiver's two USB ports, making sure to follow any connection instructions that came with the hard-disk drive.
Note: Currently, the receiver supports having one USB device connected at a time. If you have a second USB device such as a digital camera or portable media player connected to the receiver, you should disconnect it before connecting the external hard-disk drive.
- 3 If the hard-disk drive is compatible, you'll see a pop-up message screen confirming the device's connection and asking if you want to manage its contents. Select **Yes**.
- 4 Follow the on-screen prompts for activation on your DISH Network account of the DVR External Hard Disk Drive feature for storage and playback of DVR content.
- 5 Once the feature has been activated, you'll see a pop-up message asking if you want to format the drive—formatting is necessary to store your recorded programs on the external hard-disk drive. Note that selecting **Yes** will cause anything stored on the external hard-disk drive to be erased, the drive to be formatted for use with your receiver, and then the receiver to reboot. You can use the **Manage Device** option to view and manage programs stored on the external hard drive. Use the **Send to Device** option to transfer programs from your receiver to the external hard-disk drive. Copy protection for certain content may apply. See www.dishnetwork.com/content/faq/copy_protection/ for more information.
- 6 Press DVR and select **USB Storage** to manage the contents of the external hard drive.

Portable Media Players

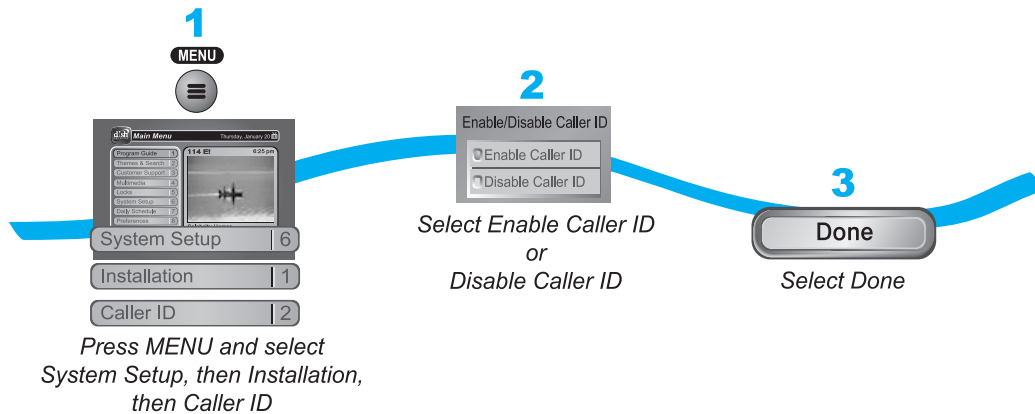
You can take your recorded content on the go with an ARCHOS portable media player. Visit www.archos.com for compatible models and to get a free DISH Network plug-in. A one-hour, standard-definition program will transfer in only about five minutes! Copy protection for certain content may apply. See www.dishnetwork.com/content/faq/copy_protection/ for more information.

USING CALLER ID

Caller ID displays on your TV if you subscribe to Caller ID from your local phone company. To use this feature make sure you have a phone line connected to the receiver, Caller ID is enabled on your phone line and that the Caller ID option is selected on your receiver.

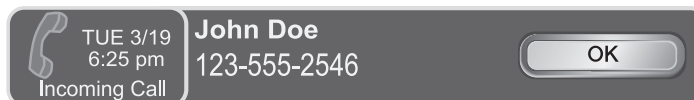
Setting Up Caller ID Display

Use these instructions to enable or disable Caller ID.



Caller ID Screens

When you receive a call, you will see a Caller ID popup screen.



You can select **OK** to eliminate the message. If you do nothing, it will disappear after 20 seconds.

If you are using a menu when a call comes in, you will see a different Caller ID popup screen.

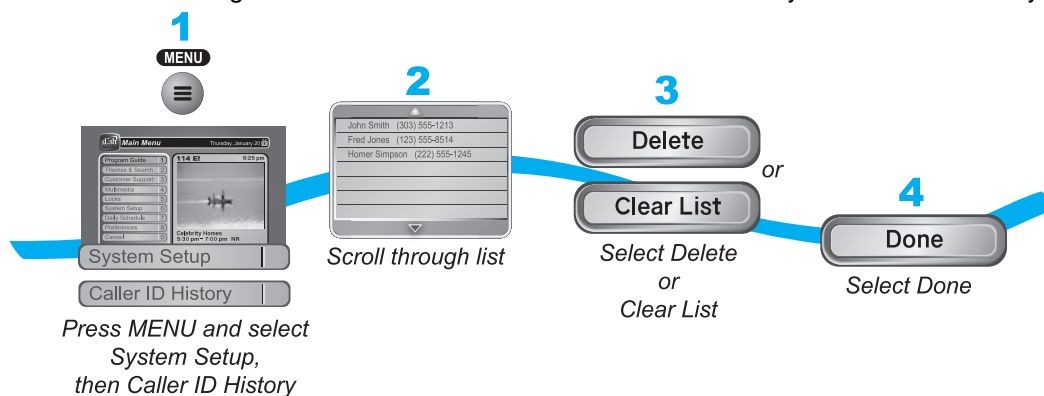


Chapter 11

Customizing the Guide and Channel Lists

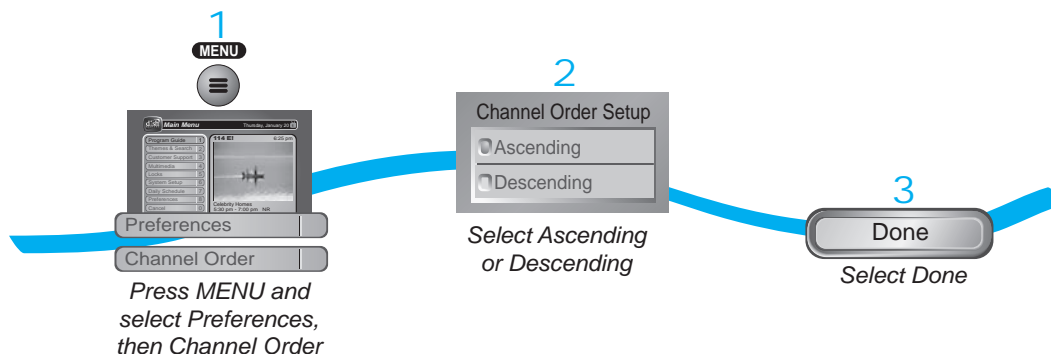
Using Caller ID History

Use the following instructions to view and delete numbers from your Caller ID History.



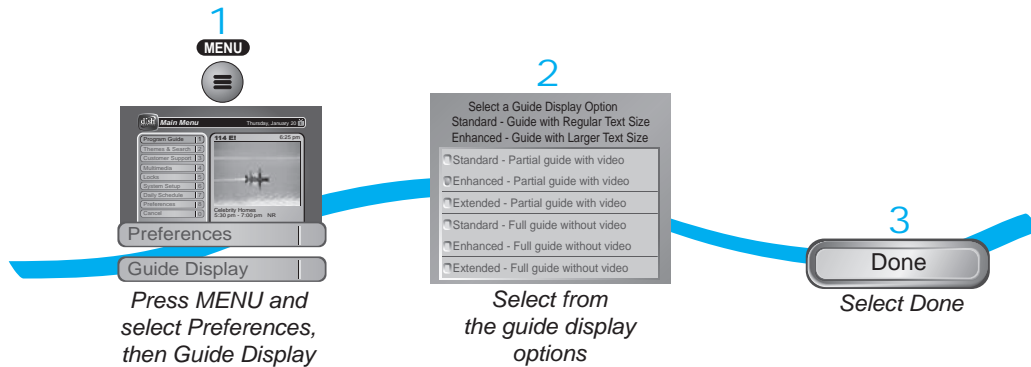
CUSTOMIZING THE GUIDE AND CHANNEL LISTS

You can set up the on-screen Program Guide to list channels in Descending order, with the highest channel number displayed at the bottom of the TV screen, or in Ascending order, with the highest channel number displayed at the top of the screen. The default setting is to list channels in descending order.



Changing the Guide Display

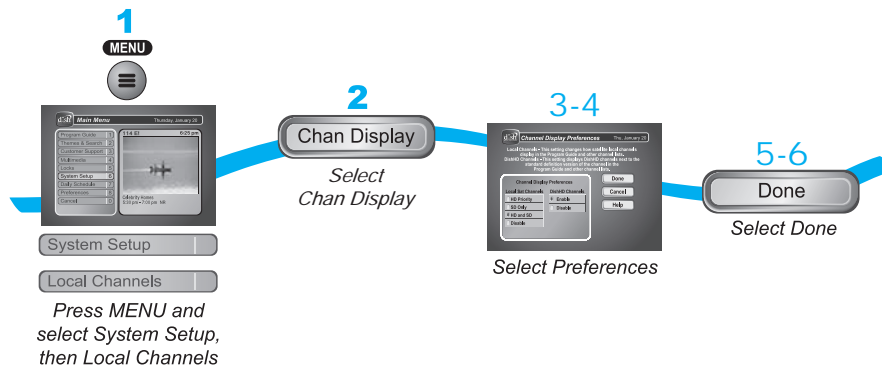
The receiver comes set to display the Program Guide with video in the upper right corner. However, you can change the way the Program Guide displays on your TV screen.



- **Standard - Partial Guide with Video.** This option is preset when you first install the receiver. The Program Guide displays video in the upper right corner and 1.5 hours of TV schedule per page.
- **Enhanced - Partial Guide with Video.** Choose this option if you'd like larger text on your Program Guide. The Program Guide displays video in the upper right corner and one hour of TV schedule per page.
- **Extended - Partial Guide with Video.** Choose this option if you'd like to see video in the upper right corner and the Guide display three hours of TV programs per page.
- **Standard - Full Guide without Video.** Choose this option if you'd like to see more channels (rows) per page on the Program Guide.
- **Enhanced - Full Guide without Video.** Choose this option if you'd like to see more channels (rows) per page in larger text on your Program Guide.
- **Extended - Full Guide without Video.** Choose this option if you'd like to see more channels (rows) and the Program Guide display three hours of TV schedule per page.

Channel Display Preferences

The **Chan Display** option on the Local Channels menu allows you to customize how your local satellite channels and your DishHD channels display in the Program Guide and other channel lists.



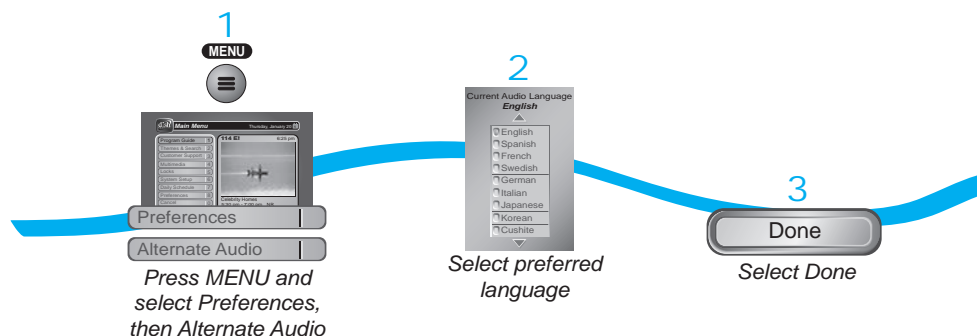
Chapter 11

Changing Languages

- 1 Press the MENU button, select **System Setup**, and then **Local Channels**.
- 2 Select **Chan Display**.
Note: Changing the channel display preference may cause timers on those channels to be lost. Review your timers list after making any changes (refer to *Using the Timers List* on page 67).
- 3 Choose a preference for how local TV channels display in the Program Guide and other channel lists under Local Sat Channels:
 - **HD Priority**—to display only HD versions of local TV channels below 100 at the local station's channel number. If an HD local channel is not available, then the SD channel is listed.
 - **SD Only**—to display only SD local channels below 100. HD channels display in the four-digit channel range. (This is also referred to as disabling “HD mapdown.”)
 - **HD and SD (default)**—to display both HD and SD local channels at the local station's channel number. This is the default setting when your receiver is first installed.
 - **Disable**—so HD and SD local channels are found only in the four-digit channel range.
- 4 Choose a preference for how DishHD channels display in the Program Guide and other channel lists under DishHD channels:
 - **Enable (default)**—DishHD channels display at the SD channel number.
 - **Disable**—DishHD channels display in the four-digit channel number.
- 5 Select **Done** on the Channel Display screen.
- 6 Select **Done** on the Local Channels screen.

CHANGING LANGUAGES

You may be able to change the language of some programs. Some programs, such as movies, indicate at the beginning whether an alternate language or descriptive video is available. An alternate language applies only to the audio part of a program and does not change the language used in the menus displayed by the receiver. Descriptive video—not included on all channels and programs—is a feature for the visually impaired that describes what is happening during a program.



USING CLOSED CAPTIONING

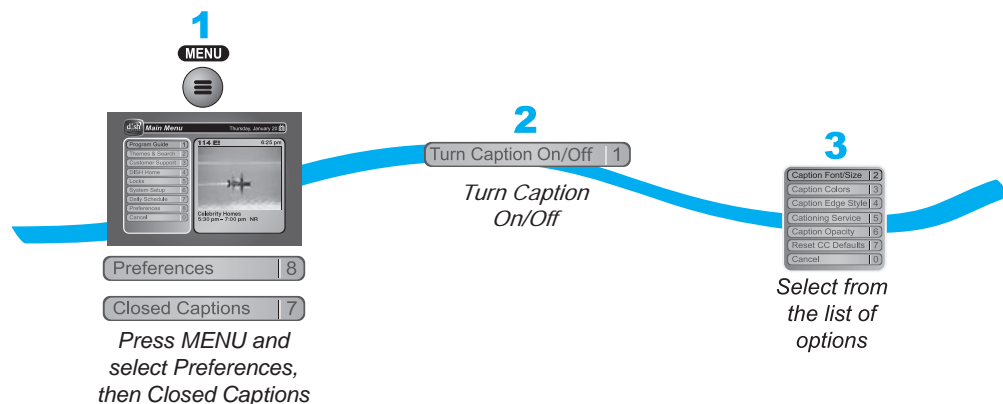
The receiver has many options for Closed Captioning (CC), which allow you to change the feature to suit your needs. Also, you can display captions when you play back programs recorded on the receiver's integrated DVR (Digital Video Recorder), even if you didn't have them turned on at the time the program or event was recorded.

Use the following questions and table to determine if CC is available at your TV location:

- 1 Are you watching SD or HD programming?
- 2 Are you in Single or Dual Mode? Refer to page 15 for information on switching modes.
- 3 Are you watching TV1 or TV2?

Programming Type	Single Mode	Dual Mode
SD Programming	TV1: CC available through the receiver. TV2: CC available through the receiver.	TV1: CC available through the receiver. TV2: CC must be enabled on the TV.
HD Programming	TV1: CC available through the receiver. TV2: CC available through the receiver.	TV1: CC available through the receiver. TV2: CC must be enabled on the TV.

Note: Not all programming contains CC information.



Choose from the list the display options matching your preference, then select **Done**.

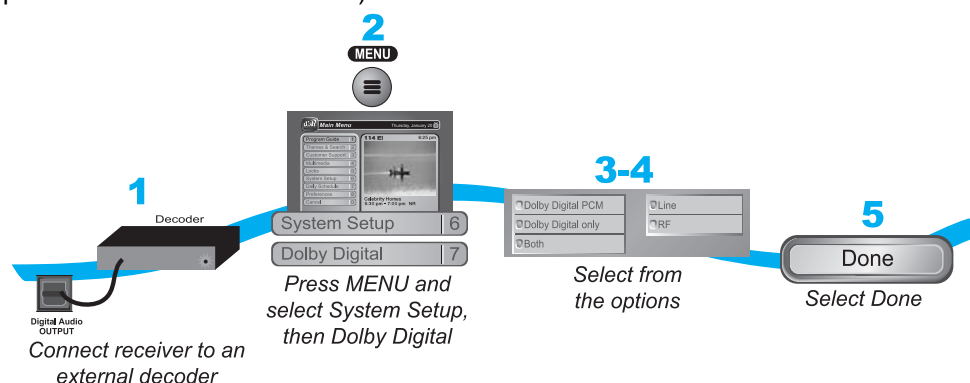
- **Caption Font/Size:** Select a comfortable font and type size.
- **Caption Colors:** Set the background, letter, and edge colors. Choose the color combinations that make the captioning easy for you to see.
- **Caption Edge Style:** Set the edge style of the available CC text.
- **Captioning Service:** Select the service that you want to use, if one is available.
- **Caption Opacity:** Choose from **Provider**, **Transparent** (see-through), **Translucent** (semi-see-through), **Solid**, and **Flashing**.
- **Reset CC Defaults:** Reset all closed-captioning options to their default settings.

USING DOLBY® DIGITAL SURROUND SOUND

Dolby Digital gives you the capability to enjoy programs with surround sound. An external decoder is required to enjoy this feature. Refer to your decoder's user's guide.

Note: Not all programs or events contain a Dolby Digital sound track.

Your new receiver uses an optical port for outputting digital audio. The optical output can provide two audio data types: Dolby Digital and Linear PCM (only Dolby Digital can provide full 5.1-channel sound).



- **Dolby Digital Only:** Select this option if the stereo system or amplifier can decode only Dolby Digital and will not process Linear PCM signals. See your amplifier's owner's manual for more details on the amplifier (and see the following table).
- **PCM Only:** Select this option only if the stereo system or amplifier cannot decode Dolby Digital signals.
- **Dolby Digital/PCM:** Select this option only if the stereo system or amplifier can decode both Dolby Digital and Linear PCM signals.

The audio output is also dependent on what is present in the program you are watching. The table below shows what type of output you will hear:

Optical Output Setting	Signal Present in Program		
	Dolby Digital	PCM	Both
Dolby Digital Only	Dolby Digital	PCM	Dolby Digital
PCM Only	PCM (downmix)	PCM	PCM
Dolby Digital/PCM	Dolby Digital	PCM	Dolby Digital

Note: When both audio signals are present for a program or event, the receiver defaults to Dolby Digital output unless you have selected PCM Only.

Note: If you have selected Dolby Digital Only but there is only PCM audio in the program, you will hear nothing. This also applies to the analog-only left/right stereo audio outputs.

- **Line Mode:** When you use this setting, in comparison to RF Mode, the dynamic range is wider, which makes the music and loud noises louder, but voices quieter.
- **RF Mode:** When you use this setting, in comparison with Line Mode, the dynamic range is narrower, which makes music and loud noises quieter, but voices louder.

RESETTING TO FACTORY DEFAULTS

You can reset the receiver to discard any changes you have made to receiver settings, except for remote control addresses and locks. Resetting the receiver to factory default settings also discards all Favorite Lists except for the All Chan, All Sub, and All HD lists.

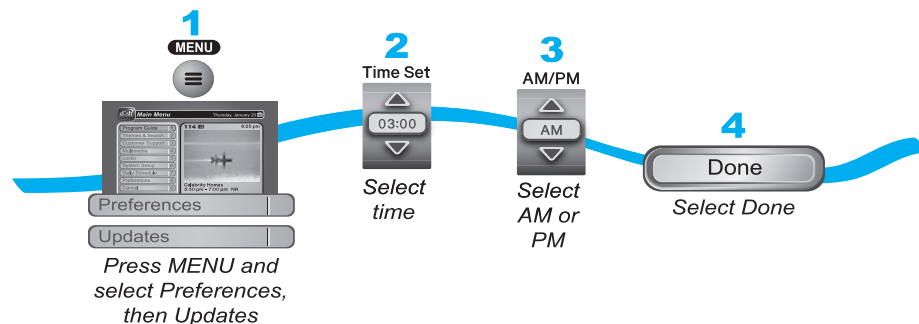
You cannot reset the receiver to default settings to discard or reset a password you have forgotten. No one but a DISH Network Customer Service Representative can reset the receiver to bypass a password-protected parental control setting or lock.

- 1 Press the MENU button, select **System Setup**, and then **Factory Defaults**. The receiver displays a Warning message to confirm that you want to reset the receiver's preferences.
- 2 Select **Yes**.

SCHEDULING RECEIVER UPDATES

The receiver comes scheduled to update the Electronic Program Guide (EPG) information at 3:00 AM every day. This section describes how to change the Updates settings. This feature is enabled so that your DVR event data and Dish**PASS** timers remain current.

Note: This feature does not interfere with scheduled event timers.



INACTIVITY STANDBY

If your receiver is on for a preset period of time without any activity (for example, no channel changes or use of DVR controls), the Inactivity Standby feature turns off the receiver so that you'll always have the latest Program Guide and DISH On Demand (if available on your model). Enabling this feature is recommended and can also improve the reliability of your receiver. To change the settings for this feature, complete the following:

- 1 Press the MENU button. Select **Preferences**, and then **Inactivity Standby**.
- 2 Highlight **Activation** and use the UP and DOWN ARROW buttons to switch between **Enabled** and **Disabled**, as applicable.
- 3 Highlight **Inactivity Duration** and use the UP and DOWN ARROW buttons to select the amount of time the receiver waits before turning off.
- 4 Select **Done**.

Note: Select **Defaults** to reset any changes you have made to this feature.



TIPS

- To take full advantage of Dolby Digital 5.1 surround sound, you need a digital optical audio cable and audio equipment that supports this feature.
- To use the Caller ID feature on this receiver, be sure to have the receiver connected to an active phone line and have Caller ID service from your phone company.



QUESTIONS

- **How can I see who has called me in the past?** Open your Caller ID History by pressing the MENU button, selecting **System Setup**, and then **Caller ID History**.
- **Why is my audio in another language?** An alternate language may have been selected. See the instructions on page 98 to change your preferred language.
- **How can I change the channel order in the Program Guide?** You can switch from ascending order (lowest numbered to highest) to descending order (highest numbered to lowest) or back, by following the instructions on page 96.

Connections and Setup



Chapter

12

How to Connect Your Satellite Receiver

What you'll find in this chapter:

- **CONNECTING TO THE NEARBY TV (TV1)**
- **CONNECTING TO THE REMOTE TVs (TV1 OR TV2)**
- **CONNECTING TO YOUR DISH ANTENNA**
- **CONNECTING THE PHONE LINE**
- **CONNECTING A BROADBAND INTERNET CONNECTION**
- **CONNECTING A VCR TO THE REMOTE TV**
- **CONNECTING AN OVER-THE-AIR ANTENNA**
- **USING TROUBLESHOOTING TOOLS**

CONNECTING TO THE NEARBY TV (TV1)

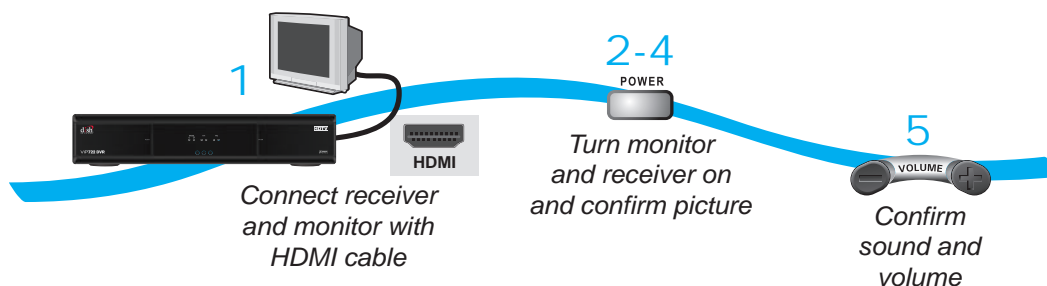
This section describes how to connect receiver TV1 output ports to a nearby TV. Select one of the following methods.

Note: If you would like to put the receiver in a remote location (closet, cabinet, etc.), be sure to get the replacement remote control that uses UHF Pro signals to control TV1. Contact your DISH Network retailer or go to www.dishnetwork.com, select Technology, and then click on Remotes & Accessories.

HDMI Connections

The **HDMI** connection provides high-quality audio and video to your HDTV or HD Monitor in one cable. If your HDTV or monitor has an HDMI connection available, this is the recommended connection.

Note: Connecting your TV directly to the audio/video outputs of your receiver will assure a more vivid picture and enhance your viewing enjoyment.



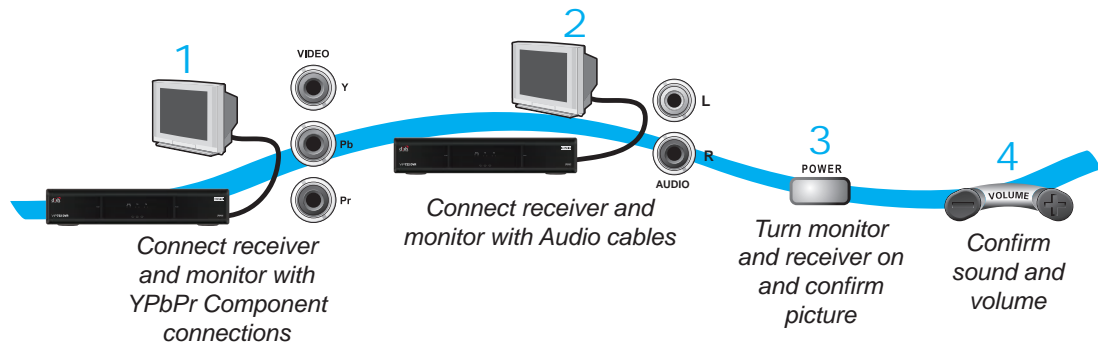
- 1 Connect an HDMI cable between the **HDMI** connection on the receiver and HDTV set or monitor.
- 2 Turn on your receiver and TV using the front panel buttons.
- 3 Confirm that you are getting a picture from the receiver. Consult your HDTV user's guide if you need to change your HDTV to display from the correct Digital Audio/Video input.
- 4 If you do not see a picture, see *No Picture on the Nearby TV* on page 105.

Note: In most cases, connecting the HDMI cable will provide plug-and-play control of the monitor's display resolution and other settings. However, your HDTV may require selecting a different format to display video properly from the receiver during its setup.

- 5 Turn up the volume on your HDTV and confirm you hear sound. If you don't have sound, your system may require you to connect stereo audio (red and white), RCA-type cables between the receiver's analog audio outputs and your system's audio input connections.

YPbPr Connections

The **YPbPr** (component) connections provide high-quality video to your HDTV or HD monitor. If an HDMI audio/video connection between your receiver and nearby TV is unavailable or not applicable, then you should use component video with separate audio.



- 1 Connect between the **YPbPr** component video connections on the receiver and the nearby TV using component (usually red/green/blue) video cables.
- 2 Connect audio (red and white) RCA-type cables between the receiver **AUDIO OUTPUTS** and audio input connections that go with the YPbPr connectors on your HDTV or monitor.
- 3 If you do not see a picture, change the resolution setting on the receiver. Use the steps below and *Setting Up to Display in HD* on the next page.
- 4 Turn up the volume on your HDTV and confirm you have sound. Check the RCA-type connections if you don't have sound.

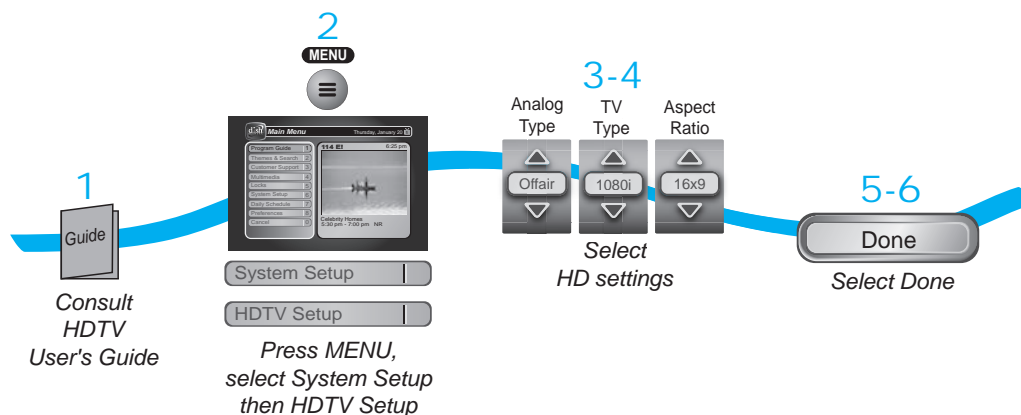
No Picture on the Nearby TV

This section will help you make a picture appear on the nearby TV in case you could not do so in the previous sections.

- 1 Connect the three RCA-type cable connections (yellow for video and red/white for audio) between the receiver **TV1 OUT** and the nearby TV.
- 2 Make sure that both the receiver and nearby TV are turned on (not in standby or power-saving mode).
- 3 Make sure the nearby TV is set to view the RCA-type audio/video inputs or source. Look on the back of your HDTV or consult your HDTV user's guide for more information.
- 4 Change the receiver's HDTV settings, as described on page 106.
- 5 Switch to the nearby TV to display from the HD inputs (HDMI or component video) that you selected in the previous sections. If you have a picture from TV1, you are finished.
- 6 Repeat steps 4 and 5 until the nearby TV displays a video image from the receiver.

Setting Up to Display in HD

Once the receiver has been activated with qualifying DISH Network programming, you will be able to receive high-definition programs to watch. Use the following steps to select the desired HDTV format to display these programs on your TV.



- 1 Consult your HDTV user's guide for the best HD-format resolution that the TV supports (typically, either 1080i or 720p).

Note: If you choose to view a DISH-on-Demand event in 1080p, the receiver performs a brief video test to determine your system's compatibility with the higher resolution.
- 2 Press the **MENU** button, select **System Setup**, and then **HDTV Setup**.
- 3 Select the HD format settings (**Analog Type** and **TV Type**) that matches the format your TV supports.
- 4 While in this menu, select the **Aspect Ratio** option that matches your TV:
 - **16x9** is the setting for a wide-screen HDTV display.
 - **4x3 #1** is the setting to use on a 4x3 TV which uses vertical compression. When viewing a 16x9 program using this setting, a compatible TV automatically makes the picture in letterbox format (with black bars across the top and bottom of the screen), to preserve the correct horizontal and vertical proportions of the wide-screen HD image.
 - **4x3 #2** is the setting to use on a standard 4x3 TV which does not use internal vertical compression. When viewing a 16x9 program on such a TV, black bars at the top and bottom will not be displayed, and a high-definition image will appear tall and skinny.
- 5 Select **Done**.
- 6 If required, set up the HDTV to display in the best format. If you are connected using an HDMI cable, some HDTVs will automatically adjust the resolution setting to the receiver.

CONNECTING TO THE REMOTE TVs (TV1 OR TV2)

This section describes how to connect the receiver's **HOME DISTRIBUTION** connection to the cable-ready remote TV located in another room away from the receiver. You can use these instructions to connect TVs in your house to see programming from TV1 or TV2. This installation uses your in-home cable system. If your house does not have built-in cabling, it will be necessary to run cables from the receiver to each remote TV. Due to the difficulty of this installation, you should consider having this professionally installed. Contact DISH Network at www.dishnetwork.com/chat or call 1-800-894-9131).

If you're using TV1 in a room away from the receiver, be sure to order the replacement remote control that uses UHF Pro signals instead of IR. Call your DISH Network retailer, or go to www.dishnetwork.com, select Technology, and then select Remotes & Accessories.

When connecting to the **HOME DISTRIBUTION** coaxial port, you must meet the FCC requirements in the Appendix. To meet these requirements, an in-line coaxial attenuator has been included with your receiver and may need to be installed using the following guidance:

- If connecting to your in-home cabling system to distribute the signal to a TV(s) in other rooms, in most cases you will not have to install the attenuator on the **HOME DISTRIBUTION** port for typical in-home cabling systems.
- If connecting directly to a nearby TV tuner port, you must install the attenuator in the cable between the **HOME DISTRIBUTION** port and the TV tuner.



If you have an over-the-air antenna or cable connected to your in-home cable system, see *Connecting an Over-the-Air Antenna* on page 116 .



Make sure you are familiar with how to change channels on your TV and if necessary how to switch your TV between over-the-air and cable channels. During this procedure, it will be necessary to change the channels on your TV(s) to tune to these channels to see the video from the receiver. See your TV user's guide for instructions.

- 1 Connect the tuner input of the remote TVs in other rooms to an existing wall cable outlet using a coaxial cable.
- 2 Turn on every remote TV connected to the in-home cabling system.
- 3 Find three channels next to each other on one of your remote TVs that do not pick up any signals from over-the-air or cable broadcasts (they should show nothing but snow or static). These channels must fall in one of the two ranges below. For example, if you find that cable channels 75, 76, and 77 do not pick up any broadcasts, pick these channels since they fall into the range below for cable channels. Make sure these three channels on other remote TVs also do not pick up broadcasts.
 - **Air Mode** - Select a channel between 21 and 69 if your TV(s) will be set in Air Mode.
 - **Cable Mode** - Select a channel between 73 and 125 if your TV(s) will be set in Cable Mode.

Chapter 12

Connecting to the Remote TVs (TV1 or TV2)

Note: The remote TV(s) will have to be set to the same channel mode, either air or cable channel mode for this installation. See your TV user's guide for instructions on how to set your TV to air or cable channel modes.

- 4 Pick the channel in the middle of the three you selected in step 3. Write that channel down in the blank provided in step 5. For example, if the three channels you picked in the preceding step were air channels 60, 61, and 62, pick channel 61 and write it in the space provided in step 5.
- 5 If your TV is in over-the-air mode for the channels you picked in step 4, circle "Air" below. If your TV is in cable mode for the channels you picked in step 4, circle "Cable" below. If you are using these instructions for TV1 and TV2, pick different channels (for example, Channel 60 for TV1 and Channel 64 for TV2).

TV1 Channel: _____ **TV2 Channel:** _____ **Air/Cable**

- 6 Set all of your remote TV(s) to the channel mode (air or cable) you wrote in step 5.
- 7 Tune all of your remote TV(s) to the channel(s) you wrote in step 5. This is the channel you will use to receive your satellite programming.
- 8 Connect **CH 21-69 OUT** on the receiver to your existing wall cable outlet using a coaxial cable.

Note: If you do not have an existing in-home cable system, you will need to run coaxial cable to each TV in other rooms. If this is too difficult, you may want to contact a professional to do this installation.

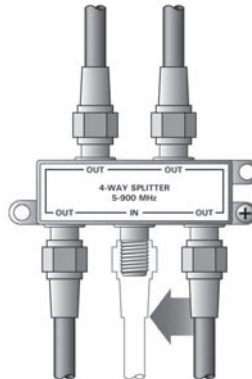
- 9 Place the yellow sticker on the CH 21-69 Out cable near where the cable attaches to the receiver. The stickers are located inside the front cover of this guide.
- 10 Turn on the nearby TV (the TV that gets programming from the TV1 outputs).
- 11 Make sure the receiver's green TV1 indicator is on.
- 12 Press MENU. Select **System Setup, Installation**, and then **Modulator Setup**.
- 13 With the Modulator Setup screen displayed on the nearby TV, use Remote Control 1 to do the following:
 - a Under TV2 Out (or TV1 Out), select either **Air** (air channel numbers) or **Cable** (for cable channel numbers) based on what you wrote down in step 5.
 - b Under TV2 Out (or TV1 Out), use the UP and DOWN ARROWS to change the modulator channel to the one you wrote in step 5.
 - c Select **Done**.

Note: For **TV1 OUT**, if you locked the receiver, a message will display asking you to enter your password.
- 14 For some TVs, you must run a channel scan so that the TVs will find and display the selected channel from the receiver. Run the channel scan on all remote TVs, if available. See your TV user's guide for instructions.

Connecting to the Remote TVs (TV1 or TV2)

- 15 Confirm that you see a picture from the receiver on your remote TVs.
 - If your picture looks good, go to step 23.
 - If your TVs do not have a picture or if it is not as clear as you would like it to be, go to the next step.
- 16 You may need to change the cable connection on the splitter that sends the TV signal throughout your house. The change that needs to be made is to reconnect the cable coming from the receiver **HOME DISTRIBUTION** from the output of the splitter to the input of the splitter using the instructions that follow.

The following figure shows an example of what your splitter may look like. Your splitter may look different. The places where the splitter indicates **OUT** refers to all TVs connected to your cable system. The places where the splitter indicates **IN** refers to where the TV signal is fed into the splitter.



1 Input, 4 Output (4-Way) Splitter

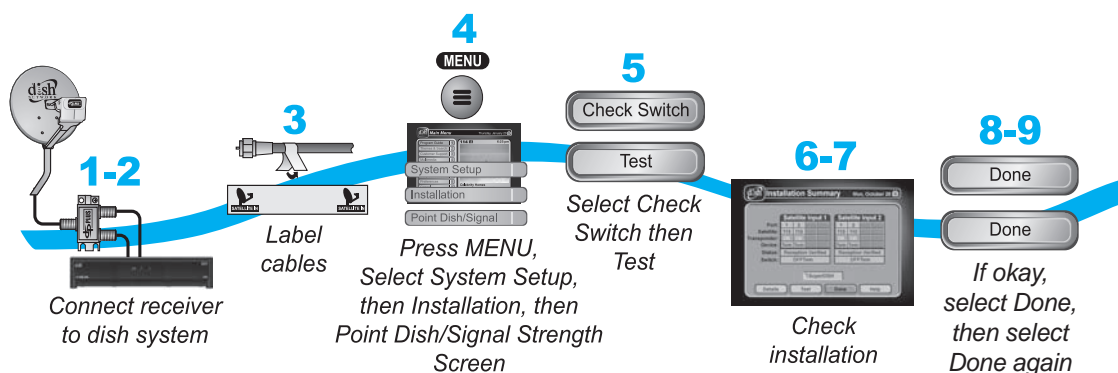
- 17 Find where the TV signal is distributed throughout your house. It should be near where the cable TV service enters the house.
- 18 Disconnect the cable TV service cable or antenna cable from the splitter input, if necessary. Make sure the disconnected cable is capped or otherwise protected from the weather.
- 19 Disconnect the cable coming from the receiver **HOME DISTRIBUTION** port from the splitter. If you do not know which cable this is, go to the next step. Otherwise, go to step 21.
- 20 If you have multiple TVs on the cable system, do the following to determine which cable on the splitter is coming from the receiver:
 - If you have at least some picture on your TVs, turn on all remote TVs connected to the cable system. Disconnect and reconnect each cable one-by-one, observing what happens to the TVs. When all remote TVs lose the signal, you have disconnected the receiver's cable. If only some or one TV loses the signal, then you have disconnected a cable from the TVs.
 - If the above step does not work, disconnect one of the output cables and connect to the splitter input. If you do not see a picture, connect the cable back to its output. Repeat this step on every connection until you get a picture on the remote TV(s).

Chapter 12

Connecting to Your Dish Antenna

- 21 Reconnect the receiver's cable to the input of the splitter.
- 22 Make sure you have a good picture on your remote TV(s).
- 23 If desired to remind you of which TV channel your satellite programming is on, write the channel number you wrote in step 5 on a blank channel sticker and place it on or near your remote TV(s). The stickers are inside the front cover of this guide.
- 24 Confirm Remote Control 2 (or Remote Control 1 with a Green UHF Pro key, sold separately) controls the receiver. See page 75 for instructions.
- 25 Program Remote Control 2's (or Remote Control 1 with a Green UHF Pro key, sold separately) RECOVER to the channel you selected in step 5. See page 88 for instructions.

CONNECTING TO YOUR DISH ANTENNA



- 1 Before you can begin connecting your receiver to your dish antenna, you must first complete the preceding sections to connecting your TVs to the receiver.
- 2 Connect two RG-6 coaxial cables between the **SATELLITE IN 1** and **SATELLITE IN 2** ports on the receiver's back panel to two available ports on either the switch, DISH Pro Plus Separator, or LNBF in your existing system.

Note: If you are installing your receiver into a system with DISH Pro or DISH Pro Plus LNBFs (and/or switches), you can have as much as 200 feet of cable between the LNBF and the receiver. However, you must use only RG-6 coaxial cables rated up to at least 2150 MHz. Some cables may say "Swept tested for 2150 MHz." If you have any doubt about this, ask your DISH Network retailer, or look on the container the cable came in. Do not use cable company TV cables or cables from other satellite TV systems not rated up to at least 2150 MHz. These other cables may cause signal loss. Do not use existing cables such as RG-59. Use waterproof F-connectors outdoors.

- 3 Peel off the blue stickers and affix them to the cables close to where they connect to the **SATELLITE IN 1** and **SATELLITE IN 2** connections on the back of the receiver. The stickers are in the front cover of this guide.
- 4 On Remote Control 1, press MENU, select **System Setup**, **Installation**, and then **Point Dish** to display the Point Dish screen on the nearby TV.

- 5 Select **Check Switch**. Select **Test**.
- 6 The receiver begins performing the Check Switch tests. When it is finished, the Installation Summary screen displays.
- 7 Make sure that the information on the Installation Summary screen identifies your system correctly and shows all transponders for all satellites in your system.
- 8 Select **OK**.
- 9 Select **Cancel** to exit the Point Dish menu. At this point, the receiver may walk you through a procedure to download software. If this prompt displays, follow the instructions and do not disturb the receiver until the nearby TV is displaying DISH Network video. Otherwise, press VIEW LIVE TV. After a few minutes, you should be watching TV.

CONNECTING THE PHONE LINE

You must keep the receiver connected to an active telephone line to order Pay-Per-View programs, use all of the Dish**HOME** Interactive features, or use other services from DISH Network with your remote control.

Note: You may be able to use a wireless modem jack. However, this may not support all the features of this receiver, such as Caller ID. See www.dishnetwork.com/support for compatible modem products.

Note: If you have a Digital Subscriber Line (DSL), you may have to install a DSL filter between the receiver's back panel **PHONE JACK** and the telephone wall jack to successfully connect with DISH Network. You can obtain a filter from your DSL provider.

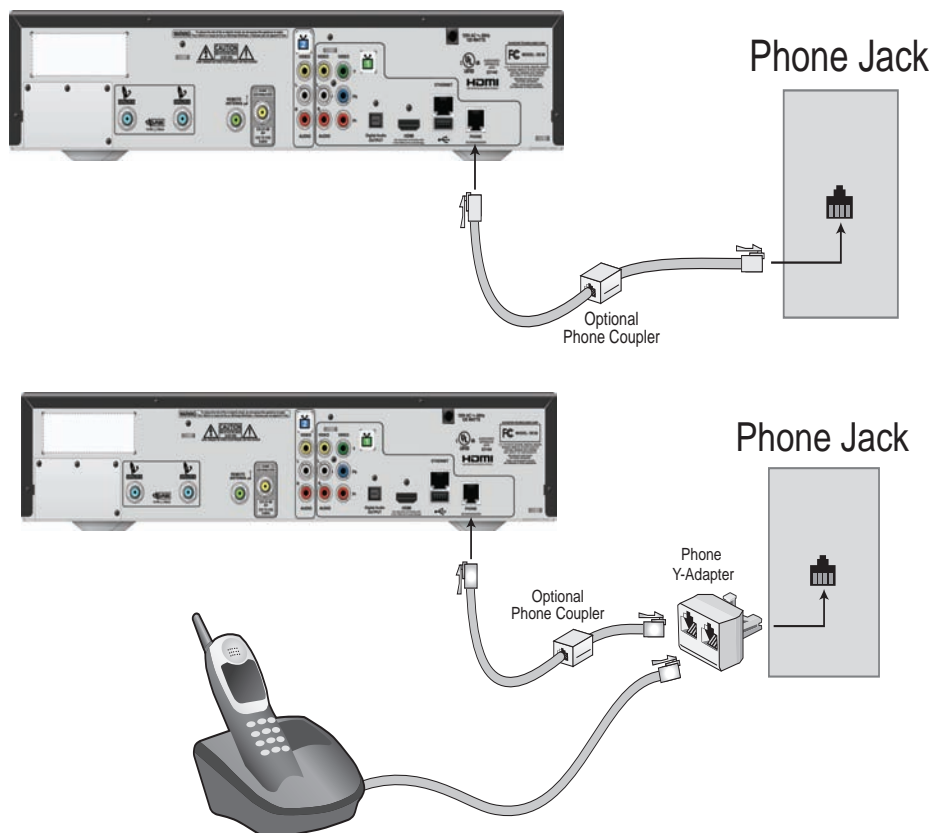
Phone Line Connection

Run a telephone cable with a standard RJ-11 connector from the receiver's back panel **PHONE** to an active telephone connection as shown below.

Note: Do not connect a telephone cord to the Ethernet connection.

Chapter 12

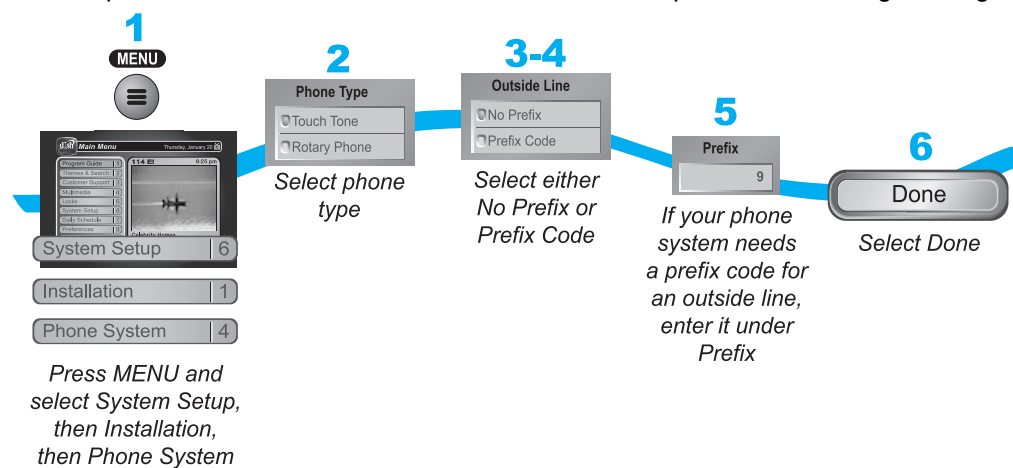
Connecting the Phone Line



Phone System Setup

You must set up the receiver for your telephone system (touch-tone or rotary-phone dialing), and set a telephone-number prefix, if you need a prefix to dial an outside call.

Note: A prefix is different than an area code, which is required for all 10-digit dialing.



- 1 Press MENU, then select **System Setup, Installation**, and then **Phone System**.
- 2 Select the **Touch Tone** or the **Rotary Phone** option in the **Phone Type** list.
- 3 Select either the **No Prefix** or the **Prefix Code** option in the **Outside Line Prefix** list.

Note: Usually, you need a telephone number prefix only for business installations. For most residential installations, all you need to do is set the telephone system type. The default setting of No Prefix will allow correct dialing. If this is the case, select the **Save** option to save the above setting, and stop here. If you do need to set a prefix, then instead of selecting the **Save** option, go on to step 5.

- 4 If you selected **No Prefix**, select **Done**.
- 5 If you selected **Prefix Code**, the receiver highlights the box where you must enter the exact sequence used when dialing an outside line.
- 6 Select **Done**.

CONNECTING A BROADBAND INTERNET CONNECTION

If you have broadband (high-speed) Internet access at home, connect your receiver to your home network. You can use this connection to order Pay-Per-View programming using your remote control if you are not able to connect a telephone line. It also provides access to additional content not usually available through your satellite TV subscription.

Refer to www.dishnetwork.com/support and select Connect to Broadband for detailed instructions on methods for making this type of connection.

CONNECTING USING DISHCOMM

DishCOMM is a robust network technology based on the HomePlug 1.0 standard that allows compatible DISH Network satellite receivers to send and receive data via the power lines in your home.

DishCOMM allows one or more receivers to "share" another receiver's phone connection (see step 4, below), or to use a DishCOMM Modem connected to the phone line (see step 5, below), which eliminates the need for a physical phone-line connection to a receiver.

DishCOMM-compatible receivers also can use a HomePlug-to-Ethernet Adapter (if it is HomePlug 1.0 or HomePlug Turbo compatible) to connect to a broadband home network for additional features. See *Connecting a Broadband Internet Connection* on page 113.

Creating a DishCOMM Network

To enable communication between DishCOMM-compatible receivers and DishCOMM equipment, you must create a DishCOMM Network. Create a DishCOMM Network by

Chapter 12

Connecting Using DishCOMM

"adding" compatible receivers and equipment (such as a DishCOMM Modem). Use a single receiver to enter the receiver (and modem) IDs on the DishCOMM Setup screen.

- 1 Access the DishCOMM Setup screen (press the MENU button, then select System Setup, Installation, and finally DishCOMM Setup).
- 2 Select **Scan** and wait for the receiver to find any compatible DishCOMM equipment.
 - For receivers, you'll see the Receiver ID number from the System Info screen.
 - For receivers that may not be on your own household's network, the system will ask you if you want to add them to your DishCOMM Network anyway.
 - For the DishCOMM Modem, it will be added automatically.
- 3 After all the equipment is added to the DishCOMM Network, select **Test** to test the network, or **Done** to save your changes to the DishCOMM Setup screen. (Refer to tech.dishnetwork.com for additional information on DishCOMM or HomePlug testing.)
- 4 If one DishCOMM-compatible receiver is attached to a physical telephone-line connection, then this receiver's modem can be shared with other DishCOMM-compatible receivers in the home, as follows:
 - a Connect an active phone line to one receiver.
 - b Create the DishCOMM Network (see instructions, above).
 - c Using the receiver that is physically connected to an active phone line, go to the Phone System menu (press the MENU button, select System Setup, Installation, and finally Phone System). Ensure that "Local" is displayed under Connection Mode.
 - d Using the other DishCOMM-compatible receiver(s), access the Phone System menu (press the MENU button, select System Setup, Installation, and finally Phone System). Ensure that "Remote" is displayed under Connection Mode.
- 5 If no receivers in your home have a telephone jack located close enough for a physical connection, then a DishCOMM Modem can be shared among multiple DishCOMM-compatible receivers, as follows:
 - a Connect an active phone line to the modem.
 - b Create the DishCOMM Network (see instructions, above).
 - c Using all DishCOMM-compatible receiver(s) not attached to a phone line, access the Phone System menu (press the MENU button, select System Setup, Installation, and finally Phone System). Ensure that "Remote" is displayed under Connection Mode.

DishCOMM Considerations

Keep in mind these important considerations about using DishCOMM network technology:

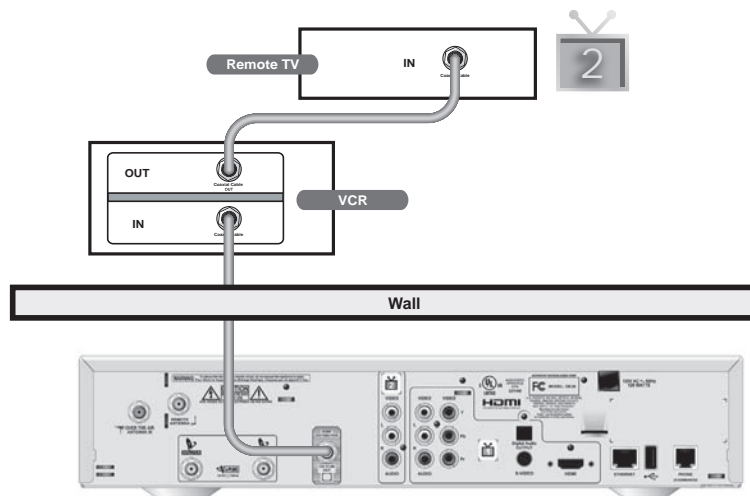
- If you are using a surge protector/strip, you must use one that is approved for use with HomePlug devices, and the receiver(s) and/or the DishCOMM Modem must be plugged into the HomePlug-compatible outlet of the surge protector.

Connecting a VCR to the Remote TV

- DishCOMM equipment should not be plugged into switched outlets.
- Dimmers for home lighting can interfere with DishCOMM. It is not recommended to use dimmers on the same home electrical circuit as DishCOMM equipment.
- Avoid plugging DishCOMM equipment into GFI (Ground Fault Interrupter) outlets, as they may interfere with network communications.
- When sharing a receiver's built-in telephone modem, the Caller ID feature must be enabled on both receivers in order to provide the information to the receiver that is not physically connected to the phone line. Caller ID service must be active on this line.

CONNECTING A VCR TO THE REMOTE TV

Below is an example of how to connect a VCR to your satellite TV system.



For this installation, always leave your VCR powered on so that the TV can receive satellite programming. If you turn off your VCR, then your TV will not be tuned to the correct channel to receive satellite programming.

Note: Connecting your TV directly to the satellite receiver provides the best audio and video quality.

- 1 Connect the tuner input of the remote VCR to an existing wall cable outlet using a coaxial cable.
- 2 Connect a coaxial cable from the output on the VCR to the remote TV's tuner port.
- 3 Plug in and turn on the remote VCR and TV.
- 4 Tune the remote VCR to the remote TV channel that you use to watch satellite TV programming (for example, channel 60) as set on page 108.

Chapter 12

Connecting an Over-the-Air Antenna

- 5 Write the channel number you tuned your VCR to in the previous step on one of the TV2 channel stickers. Place the sticker on or near the VCR. This sticker will remind you which VCR channel to use to watch satellite programming. The stickers are located in the inside front cover of this guide.
- 6 Set the VCR output to channel 3 or 4.
- 7 Tune the remote TV to the same channel that you set your VCR to in step 6.
- 8 Write the channel number you tuned your TV to in the previous step on one of the TV2 channel stickers. Place the sticker on or near the TV. This sticker will remind you which channel to use to watch satellite programming. The stickers are located in the inside front cover of this guide.

CONNECTING AN OVER-THE-AIR ANTENNA

If you want to receive digital channels from an over-the-air antenna in addition to your satellite receiver programming, connect the over-the-air antenna into your TV distribution equipment.

- The **TV ANTENNA IN** on your receiver's back panel can be used to receive and view programming on the nearby TV from an over-the-air antenna.
- Connect a VHF/UHF over-the-air antenna to the **TV ANTENNA** port. Peel off the black sticker and affix it to the cable close to where it connects to the back of the receiver. The stickers are inside the front cover of this guide.
- The remote TV can view over-the-air channels only in Single Mode.
- For remote TVs receiving programming from **HOME DISTRIBUTION**, the over-the-air antenna needs to be connected to your TV distribution equipment. When adding this connection, the FCC requires that you install appropriate equipment between the over-the-air antenna/cable and the satellite TV receiver to prevent you from accidentally retransmitting DISH Network programming (see FCC Compliance in the Appendix). TV distribution equipment devices include coax panels, amplifiers, or Super Home Nodes, and are available through many companies.
- You can add local over-the-air channels and assign them network affiliations. Once you have done this, you can access the channels via the Program Guide or the Browse Banner in much the same way as you would satellite channels.

Note: The type of antenna required depends on the channels used by, and the locations of, the local broadcasters for your area. Visit www.antennaweb.org or contact a professional installer to help you select a suitable antenna.



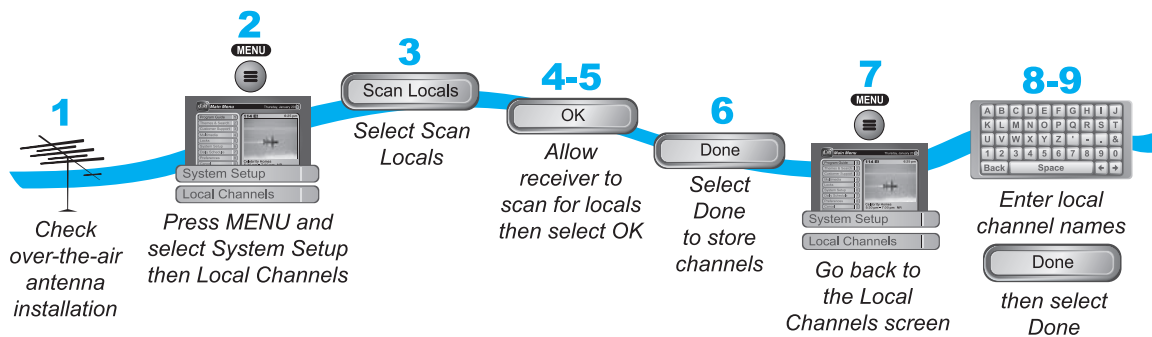
Make sure to follow the antenna installation instructions correctly. Ground an outdoor antenna per the National Electrical Code (NEC) and any local electrical codes.



The audio/video quality on local over-the-air channels depends on the distance and terrain between the broadcast station and your home, and on the placement and quality of the over-the-air TV antenna you use. If you have questions about over-the-air channels, then contact the broadcaster, not DISH Network.

Scanning for Over-the-Air Channels

With your over-the-air antenna adjusted for best reception, use these instructions to scan for over-the-air channels for the nearby TV.

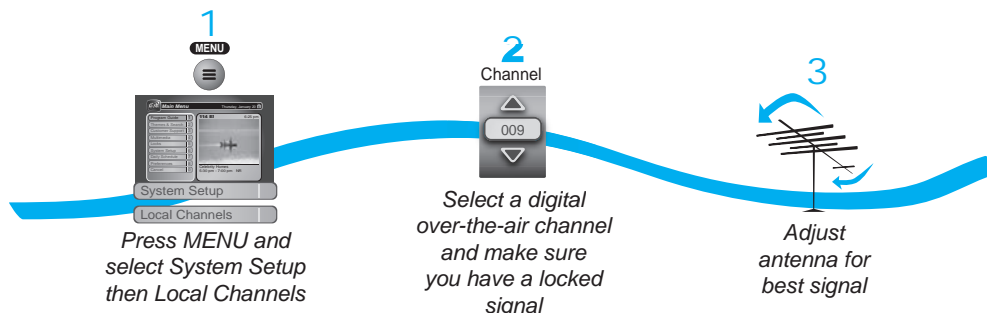


- 1 Make sure you have your over-the-air antenna connected to the receiver's **TV ANTENNA IN** connection.
- 2 Press **MENU**, select **System Setup**, and then **Local Channels**. If this is the first time you have opened the Local Channels screen, it will have no channels listed.
- 3 Scan for channels by selecting **Scan Locals**.
- 4 The scan will take a few minutes to complete. When it finishes, the results will show how many channels the scan found.
- 5 Select **OK** to go back to the Local Channels screen.

Note: If the channel number says None, you have not yet assigned this channel a network affiliation or name. The arrow at the bottom left means that there are more channels off the bottom of the screen, which you can get to with the **ARROW** keys if you wish to edit their names or remove them.

- 6 If you want to name the over-the-air channels, continue to the next step. If you do not want to name these channels, select **Done**. You will then be taken out of the menus and back to watching TV.
- 7 Select a channel and then select **Edit Name** to modify the way the channel name displays on your screen.
- 8 Use the virtual keyboard on the screen to select the letters of your channel name.
- 9 When you are finished making changes, select **Done**.

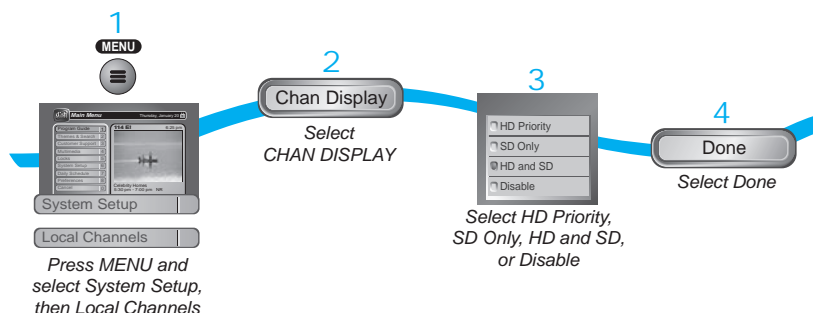
Peaking Your Over-the-Air Antenna



- 1 Press **MENU**, select **System Setup**, and then **Local Channels**.
- 2 Highlight the **Channel** field and use the **UP** and **DOWN ARROWS** to select a digital over-the-air channel. Make sure you see a green signal strength bar and a **Locked** indication on the meter.
- 3 Adjust the orientation of your antenna to maximize the signal strength. If you cannot get a **Locked** indication, you may need to upgrade your antenna or relocate it to a better position.

Using Local Satellite Channels

If you subscribe to the local satellite channels and want to see them in the Program Guide by broadcast number, select the **Sat Locals** option. Otherwise, the local satellite channels will display in the four-digit channel range. Digital over-the-air channels display in the guide at the broadcast channel regardless of the setting you choose here.



- 1 Press **MENU**, select **System Setup**, and then **Local Channels**.
- 2 Select **Sat Locals**.
- 3 Select **HD Priority** (display HD local channels only, if available), **SD Only** (display SD local channels only), **HD and SD** (display both HD and SD satellite local channels) or **Disable** (cancel HD Priority default).
Note: Selecting **HD Priority** will cancel satellite local timers for SD programs. Selecting **SD Only** will cancel satellite local timers for HD programs.
- 4 Select **Done**.

Transmit Channel Numbers

For information on channel numbers, you can visit the National Association of Broadcasters (NAB) web page at www.nab.org.

For a list of digital broadcast stations and their Transmit Channel numbers go to www.nab.org/AM/ASPcode/DTVstations/dtvstations.asp.

Note: Where Transmit Channel is displayed by the receiver, the NAB web page uses the term RF Channel. These terms mean the same thing.

Another good source of local channel information is available from the Consumer Electronics Association (CEA) web page at: www.antennaweb.org. This website provides recommendations for antenna types and pointing directions.

About Over-the-Air TV Broadcasts

Over-the-air TV signals are broadcast from stations on the ground, while satellite TV signals are broadcast from satellites in space. You receive over-the-air TV signals using an indoor or outdoor antenna instead of the satellite dish. You are likely familiar with analog over-the-air TV signals—these are the signals that have been used to broadcast TV for many years. New digital over-the-air TV signals are broadcast and received in the same way. Digital over-the-air TV broadcasting uses advanced technology like that of DISH Network to deliver superb picture quality and CD-quality sound. However, digital over-the-air signal reception (like analog over-the-air signal reception) depends on several things:

- The distance between the broadcast station and your home (the farther away the station, the weaker the signal).
- The broadcast station's power (the lower the power, the weaker the signal).
- Obstacles between the station and your home, such as mountains, buildings, trees, or other objects (these may block or reflect the signal before it reaches you).
- Multiple broadcast stations (to receive good signals from several stations, you may need to compromise in how you aim the antenna or you may need more than one antenna).

The effects of poor digital reception are different from the effects of poor analog reception:

- Poor analog reception usually causes the TV picture to be “snowy” or to include “ghosts,” that is, multiple images caused by receiving reflected signals along with the direct signal from a station.
- Poor digital reception may cause the TV picture to be “pixelized,” that is, broken up into small squares of various colors, or to be lost completely (the TV screen is all black or all blue).
- Digital broadcasts often provide either a very good picture or no picture at all.
- You may be able to receive a poor analog signal but not be able to receive a digital signal at all.

Chapter 12

Connecting an Over-the-Air Antenna

To get the best possible digital signal reception, make sure you use the best over-the-air antenna for where you live:

- You can receive a limited number of channels using a rabbit ears-type antenna on top of the TV set, or a much larger number via a large UHF/VHF indoor/outdoor antenna.
- The higher the quality of the antenna you use, the greater its range and the better its reception will be.

Digital OTA Broadcasts are Still Developing

- Broadcasters may still be testing digital signals and their strength, and may vary power output, or turn even turn off some signals, without notice.
- Some broadcasters do not yet have a permanent transmitter tower in place.
- Broadcasters may choose to multicast, which allows them to provide multiple standard-definition channels in the same bandwidth used to provide a single high-definition channel.

These factors are outside of DISH Network's control.

Additional Installation Considerations

- Follow local and National Electric Code requirements for grounding the antenna.
- RG-6 coaxial cable is preferred for the **ANTENNA IN** line. If you are diplexing the **ANTENNA IN** and **SATELLITE IN** cables, RG-6 coaxial cable must be used.
- You cannot use a diplexer to combine the **ANTENNA IN** and **SATELLITE IN** cables if using an amplified antenna.
- If you are using a diplexer to combine the TV2 Home Distribution signal of the receiver and the **ANTENNA IN**, you must use a Super Home Node to prevent accidentally broadcasting the Home Distribution signal from the antenna.

If you have questions about over-the-air channels, contact the broadcasters, not DISH Network. DISH Network does not broadcast over-the-air signals and so cannot do anything to change over-the-air signal quality. However, the receiver's digital channel setup menus provide a signal strength bar that can help you in aiming the over-the-air TV antenna for the strongest possible signal.

USING TROUBLESHOOTING TOOLS

Your receiver has troubleshooting tools that a Customer Service Representative may ask you to use if you should ever run into problems while using your equipment. Even though these tools are quite helpful, it is recommended that you only use them when a DISH Network representative you have contacted specifies you do so.

Resetting Your Receiver

A Customer Service Representative will instruct you when to reset the receiver.

- 1 Press and hold the receiver POWER button until the front panel lights blink.
- 2 Release the POWER button.

The receiver may take several minutes to reset, complete downloads, and power on again.

Diagnostics

The Customer Service Representative may ask you to open the Diagnostics screen. Remember to have an active phone line connected to your receiver.

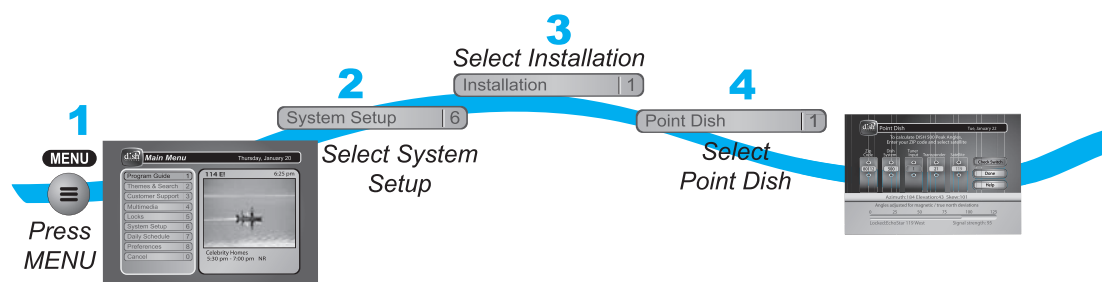
- 1 Press MENU, select **System Setup**, and then select **Diagnostics**. The Diagnostics screen shows you various tests the Customer Service Representative may ask you to perform on your receiver:
 - **Connection:** Tests for a valid receiver phone connection.
 - **Dial Out:** If “No Dial Out Pending” is displayed, the receiver does not need to have its smart card records updated.
 - **Counters:** Shows you a list of diagnostic counters. Use PAGE UP and PAGE DOWN to scroll through the list of counters displayed.
- 2 Select **Done**.

Point Dish and Check Switch

The Point Dish and Check Switch screens are often helpful to the Customer Service Representatives. You may be asked to display these screens when you contact DISH Network. Even though there are items that can be changed, only change them when specifically directed to do so when speaking to a Customer Service Representative.



Warning: Running the Check Switch test while the receiver has low or no signal will result in incorrect receiver settings and cause you to lose channels. Do not run a Check Switch test unless directed to do so by a DISH Network Customer Service Representative or technician's instructions.



- 1** Press the MENU button on the receiver front panel or remote control.
- 2** Select **System Setup**.
- 3** Select **Installation**.
- 4** Finally, select **Point Dish**. This screen shows you information to help maximize your satellite TV signal. The bar at the bottom of the screen indicates the signal strength. Green shows a good signal, yellow is a marginal signal, and red indicates the signal is not acceptable or is from the wrong satellite transponder or orbital location.

Reference



Reference

Troubleshooting and Remote Codes

What you'll find in this chapter:

- **TROUBLESHOOTING TABLES**
- **REMOTE CONTROL DEVICE CODES**

TROUBLESHOOTING TABLES

Use these tables if you have problems using the system. Look in this section for a description of the problem before calling the Customer Service Center. Many problems arise from basic misunderstandings of how the system works, especially when you are just becoming familiar with it. To solve a particular problem, do the following:

- 1 Review the section in this Guide that relates to the problem.
- 2 If you cannot find a solution, then find the section in the following tables that relates to the problem.
 - Read the What's Happening column until you find the problem.
 - Read the information in the Possible Reason column.
 - Try each of the suggested solutions in the What to Do column.
- 3 Sometimes resetting the receiver can fix a minor problem. See *Resetting Your Receiver* on page 121.
- 4 Make sure your TV is tuned to the correct channel or input. Use RECOVER as described on page 88.
- 5 Make sure your remote control has fresh batteries. If you see the Remote Battery Low warning on your TV screen, it's time to change the batteries. Follow the instructions on page 17.
- 6 Make sure your receiver is connected to an active telephone line. See the instructions on page 111.
- 7 Check for anything that might be blocking the dish antenna's view of the sky, such as tree branches or snow.
- 8 For more information, call the Customer Service Center at 1-800-894-9131, or see www.dishnetwork.com or tech.dishnetwork.com.

Note: Before calling the Customer Service Center, have ready the date of purchase and either your customer account number, the receiver conditional access number, or the receiver model number. Display the System Information screen to find these numbers (See *Ordering Your Programming Packages* on page 4). Also, write down any error messages that the receiver displays on the television screen.

Message Numbers

Message Number	Possible Reason	What to Do
001	There may be a problem with the multi-dish switch.	Check the coaxial cables and their connections to and from the multi-dish switch. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). Run Check Switch as described on page 122. If this does not work, call the Customer Service Center at 1-800-894-9131 for help.
002	Heavy rain, snow, or cloud cover may be interfering with transmission of the satellite signal, or there may be other interference.	<ul style="list-style-type: none"> Note the local weather conditions. Remove any snow or other debris which may have collected on the satellite dish. Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. Make sure that the satellite dish is aimed at the satellite. Check the strength of the signal using the Point Dish screen as described on page 122. Consult your installer to re-aim the dish, if necessary, to obtain the strongest possible signal.
003, 004	The wrong type of coaxial cable may be used in the system, or the cable run length may be too long. There may also be a problem with the multi-dish switch.	<ul style="list-style-type: none"> Make sure the system uses RG-6 coaxial cable; if not, call your dealer or installer. Check the dish-to-receiver cable run length. If your system is DISH Pro, it can be as much as 200 feet. If it is a Legacy system, it should not be more than 100 feet. Check the coaxial cables and their connections to and from the multi-dish switch. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). If this does not work, do the Check Switch test described on page 122.
005	The receiver may not have received authorization for programming yet. The satellite dish may have moved so that it is no longer picking up the satellite signal. The cable connections may have loosened or have moisture inside. There may be an interruption of the satellite signal.	<ul style="list-style-type: none"> If you have authorized the receiver (added it to your account), wait a few minutes to see if the message is removed. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. Check that the Signal Strength bar in the Point Dish screen is green and displays the word Locked, as described on page 122. If not, contact your installer to re-aim the satellite dish. If you have not authorized the receiver, call the Customer Service Center at 1-800-894-9131.
006	The receiver may not be connected to an active telephone line or broadband Internet connection.	You must connect each installed receiver to an active telephone line or broadband Internet connection.
011, 012	Viewers in specific areas are prohibited from watching certain programs. For example, viewers who live close to a particular football stadium may be prohibited from watching football games that are played in that stadium.	Program providers specify which programs are blacked out for specific areas, not DISH Network.

Reference

Troubleshooting Tables

Message Number	Possible Reason	What to Do
013, 014	You may have tried to tune to a program on a channel that you don't subscribe to.	<ul style="list-style-type: none"> You must subscribe to a channel before you can tune to a program on that channel. Call the Customer Service Center at 1-800-894-9131 to subscribe or if you believe this message was displayed by mistake. If you subscribe to the channel and you see these messages, reset the receiver (page 121).
015	You may have just plugged in the receiver and it is acquiring the satellite signal or the receiver may have temporarily lost the signal.	<ul style="list-style-type: none"> Wait a few minutes to see if the message goes away. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. Check that the Signal Strength bar in the Point Dish screen is green and displays the word Locked, as described on page 122. If not, contact your installer to re-aim the satellite dish.
018	The receiver may not be connected to an active telephone line or broadband Internet connection.	<ul style="list-style-type: none"> You must connect the receiver to an active telephone line or broadband Internet connection at all times. Call the Customer Service Center at 1-800-894-9131 for help checking the credit limit and/or to get authorization to make a purchase.
022	The receiver may not have received authorization for programming yet. The satellite dish may have moved so that it is no longer picking up the satellite signal. The cable connections may have loosened or have moisture inside. There may be an interruption of the satellite signal.	<ul style="list-style-type: none"> If you have authorized the receiver, wait a few minutes to see if the message is removed. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. Check that the Signal Strength bar in the Point Dish screen is green and displays the word Locked, as described on page 122. If not, contact your installer to re-aim the satellite dish. If you have not authorized the receiver, call the Customer Service Center at 1-800-894-9131.
026	The receiver may have temporarily lost the satellite signal.	<ul style="list-style-type: none"> Wait a few minutes to see if the message is removed. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. Check that the Signal Strength bar in the Point Dish screen is green and displays the word Locked, as described on page 122. If not, contact your installer to re-aim the satellite dish.
028	The receiver may need to get new software before you can use it to order Pay-Per-View programs.	Turn the receiver off. Doing this allows the receiver to download new software via the satellite signal. The download may take several minutes; do not disturb or unplug the receiver during this time. When the download is done, you will be able to use it to order Pay-Per-View programs.
059	You may have tried to close an installation menu without having done the Check Switch test.	If your setup includes a multi-dish switch, you must run the Check Switch test as described on page 122.

Message Number	Possible Reason	What to Do
060	You may have aimed the satellite dish at one satellite, but selected the option for another satellite on the Point Dish screen.	<ul style="list-style-type: none"> Make sure that you have selected the option for the right satellite on the Point Dish screen, as described on page 122. Make sure that the cable(s) for the satellite you have selected is connected to the LNBF that receives signals from that satellite. Re-aim the satellite dish at the right satellite.
061	The receiver is downloading current software.	It is very important for the receiver to get the latest software to function properly. The download may take several minutes. Do not disturb or unplug the receiver during this time.
074	The receiver gives you three chances to enter the correct password. If you fail to do so, the receiver "times out" and will not allow you to try again for several minutes.	Wait a few minutes and then try again to enter the password. Note: The "time out" feature is designed to prevent someone from trying password after password until he or she happens to guess the right one and gains unauthorized access to the receiver.
078, 079, 080	You may not have connected the receiver to an active telephone line or broadband Internet connection, or the telephone line or Internet connection may be defective.	Connect the receiver to an active telephone line or broadband Internet connection. Make sure that the telephone line or Internet connection to which you connect the receiver is working properly. Note: To order Pay-Per-View programs, you must keep each receiver connected to an active telephone line or broadband Internet connection. The receiver uses the telephone line to make toll-free calls (when the phone is not in use) or the Internet connection to send purchase information to DISH Network.
093	You may have selected the Reset Factory Defaults option.	If you want to reset the receiver to its factory default settings, select Yes . If you do not want to reset factory defaults, select No .

Reference

Troubleshooting Tables

Changing Channels

What Is Happening	Possible Reason	What to Do
<p>You enter a desired channel number. The channel changes, but the new channel is not exactly the channel you entered.</p> <p>When changing channels, using the Program Guide, Browse, or other channel lists, some of the channels you subscribe to are not listed.</p>	<ul style="list-style-type: none"> You may have made a mistake entering the channel number, or the channel number you entered may be invalid. If so, the channel displayed is the closest possible to the channel you entered. If a Favorites List other than All Chan is applied, the receiver will skip channels that are not on the applied list. If you entered the number for a channel that you have not subscribed to, the receiver will change to the channel and display a message indicating it is not part of your subscription. If a Favorites List other than All Chan is applied, the receiver will skip channels that are not on the applied list. If you have set up the receiver to hide adult channels or to hide locked channels, these channels are not displayed in the Program Guide or other channel lists. 	<ul style="list-style-type: none"> Carefully try entering again the channel number you want. Reset the receiver (page 121). Press GUIDE on the remote control and change the Favorites List. If you want to subscribe to a channel, go to www.dishnetwork.com/myaccount, select the Customer Support option from the receiver's menu, or call the Customer Service Center at 1-800-894-9131. Press GUIDE on the remote control, and press it again until it says All Chan at the top of the screen. Change the Hide Adult or Hide Locked setting to include these channels in the Program Guide and other channel lists.

Remote Control

What Is Happening	Possible Reason	What to Do
You cannot find the remote control.	N/A	Use the receiver front panel Control Buttons to control the receiver until you find the remote. If the remote control is permanently lost or too damaged to use, call the Customer Service Center to order a replacement.
When you press a button on the remote control, the receiver does not do what you expect.	<ul style="list-style-type: none"> The remote control may be missing batteries, the batteries may be incorrectly placed in the remote, or the batteries may be weak or dead. The remote control may be in the wrong mode. You may be using the wrong remote control (1 or 2) for the menus (TV1 or TV2) you are trying to operate. 	<ul style="list-style-type: none"> If the batteries are missing or dead, insert fresh AAA-size batteries. If the remote has fresh batteries, check whether they are placed according to the label diagram. If not, remove them and place correctly. Press the mode button for the device you want to control. Make sure you are using Remote Control 1 (or 2) to control TV1 (TV2) menus.

What Is Happening	Possible Reason	What to Do
<p>Your UHF Pro remote control does not work well from far away.</p>	<p>You may be experiencing UHF interference from objects near your receiver antenna.</p>	<ul style="list-style-type: none"> • Make sure the remote control antenna is connected to the REMOTE ANTENNA port on the receiver's back panel. • Make sure the remote control antenna is not touching any other equipment or any back panel connections on your receiver. Provide space above the receiver so the antenna can be installed straight up. • Place the receiver higher than the other equipment in your entertainment center. • Move the antenna away from the back of the entertainment center wiring and other electronics using a short piece of coaxial cable (3 to 5 feet). • Connect an F-connector attenuator between the receiver's REMOTE ANTENNA port and the remote control antenna. Refer to page 77. • Change the UHF Frequency of the remote control. Refer to page 76.
<p>When you press the remote control POWER button to turn the receiver on, the receiver front panel power light does not light up.</p>	<ul style="list-style-type: none"> • The remote control may be in the wrong mode. • Other lights are too bright. • Remote control is not operating properly or the batteries are weak or dead. • The receiver power cord is not plugged into a power outlet, or there may be a problem with the power. • The remote control(s) may not be set to the address(es) used by the satellite receiver. • You may be using the wrong remote control (1 or 2) for the menus (TV1 or TV2) you are trying to operate. • If the receiver is in Single Mode, the TV2 indicator will not light. 	<ul style="list-style-type: none"> • Press the mode button for the device you want to control. • Try other remote control buttons to see if the receiver is responding. • Replace the remote batteries with fresh ones. • Check that the receiver power cord is not damaged, and that the plug is inserted correctly into the outlet. • Make sure the remote control(s) are set to the same address(es) used by the satellite receiver. See page 74 for information on changing the remote control address. • Make sure you are using Remote Control 1 (or 2) to control TV1 (TV2) menus. • This is normal. No action required or switch to Dual Mode.

Reference

Troubleshooting Tables

What Is Happening	Possible Reason	What to Do
You use an IR extender (not a "mouse tail"), and it does not seem to work.	<ul style="list-style-type: none"> The IR sensor on the extender that receives the remote control signals may not be facing the remote control. The IR cable on the extender that sends the signal to the receiver may not be right in front of the IR sensor on the receiver front panel. You are using Remote Control 2 which does not transmit IR signals. 	<ul style="list-style-type: none"> Make sure that the extender that receives the signal from the remote control is facing the right way, so that the IR sensor can receive the remote control signals. Make sure that the IR cable on the extender that sends the signal to the receiver is right in front of the IR sensor on the receiver front panel, so that the receiver IR sensor can receive the signals. If doing the above does not solve the problem, contact the manufacturer of the extender for assistance. Use an IR extender only with Remote Control 1, which uses IR signals. Use the correct remote control.

Program Guide or the Browse Banner

What Is Happening	Possible Reason	What to Do
In the Program Guide, some channels have a red background.	Red means that you have not subscribed to that channel. You must subscribe to a channel before you can tune the receiver to it.	<ul style="list-style-type: none"> If you want to subscribe to a channel, go to www.dishnetwork.com/myaccount, select the Customer Support option from the receiver's menu, or call the Customer Service Center at 1-800-894-9131. Reset the receiver (page 121).
You try to display future programs in the Program Guide or Browse Banner, but you cannot.	The Program Guide and Browse Banner can display programs scheduled up to nine days.	Try displaying the Program Guide again later. By that time, it may show programs for the time and date you want.
You try to display programs that have ended in the Program Guide or Browse Banner, but find you cannot.	The Program Guide and Browse Banner can display only programs that have not yet ended. These features cannot display a time earlier than the present.	Contact the program providers (for example, the channel or network affiliate that broadcast the program) for details on past programs.
When you are using the Program Guide or Browse Banner, some channels are missing.	<ul style="list-style-type: none"> You may have applied a Favorites List other than the list named All Chan. You may have set up the Program Guide so that when the receiver is locked, the Guide hides adult channels 	<ul style="list-style-type: none"> You can change the applied Favorites List while using the Program Guide by pressing the remote control GUIDE button. You can choose another custom Favorites List, the All Chan list, which includes all the channels, the All Sub list, which includes all subscribed channels, and the All HD list, which includes all subscribed HD channels. Unlock the receiver for the Program Guide to display adult channels.

Watching a Program

What Is Happening	Possible Reason	What to Do
<p>The receiver's front panel power light is on, but the TV image is black, blue, or snowy.</p>	<ul style="list-style-type: none"> • The TV set may not be working properly. • The TV may be connected to the wrong input. • If the TV and the receiver are working properly, there may be interference with the satellite signal. 	<ul style="list-style-type: none"> • Verify the TV is set to the correct input or channel for your setup. • Make sure that the TV set is plugged into a working electrical outlet. • Make sure that the TV is turned on. • Use the RECOVER button (page 88). • Make sure that the TV is connected properly to the receiver. • Make sure that the TV's text mode and Closed Captioning features are turned off. • Make sure that the TV brightness and contrast are adjusted correctly.
<p>The TV image has pixels (small squares), is freezing, or you have intermittent black screens.</p>	<p>Your receiver may be experiencing signal loss due to something blocking your dish's view of the sky, the dish being mis-aligned, or weather.</p>	<ul style="list-style-type: none"> • Make sure that the satellite dish has a clear line of sight to the satellite. • Check whether branches or leaves have grown into the line of sight. • Make sure that the satellite dish is aimed at the satellite. Check the strength of the signal using the Point Dish screen, as described on page 122. Consult your installer to re-aim the dish, if necessary, to obtain the maximum possible signal strength. • Note the local weather conditions. Heavy rain, snow, or cloud cover may be interfering with transmission of the satellite signal. Remove any snow or other debris which may have collected on the satellite dish.
<p>The receiver's front panel power light is on, and there is a picture on the TV screen, but the picture:</p> <ul style="list-style-type: none"> • has sparkles or is grainy • has a herringbone pattern • lacks color or vertical hold • wobbles • looks "washed out" or fuzzy. 	<ul style="list-style-type: none"> • The TV set may not be working properly. • If the receiver is connected to the remote TV using the RF or VHF connections, there may be a strong local broadcast on the same channel, or a channel adjacent to the one to which the TV is tuned. • There may be interference from other nearby electrical devices (such as radio towers, cellular telephones, computers, microwave ovens, radios, stereos, or TVs). 	<ul style="list-style-type: none"> • Make sure that the TV brightness and contrast are adjusted correctly, and that the TV is working properly. • Make sure that the TV is connected properly to the receiver. • Check other nearby electrical devices as possible sources of interference. • Check that all required coaxial cables are in place. • Check for moisture or water leaking into all connections. Dry them out if needed, then seal them with coaxial cable sealant. • Check the length of cable between your dish and receiver. If it is greater than 200 feet, contact the person who installed your system. • Make sure the system is properly grounded.

Reference

Troubleshooting Tables

What Is Happening	Possible Reason	What to Do
A "black box" fills almost all of the TV screen.	You may have turned on the Closed Captioned feature on the TV, and put that feature into Text mode.	Using the TV remote control and/or menus displayed by the TV (not the receiver remote control or the menus displayed by the receiver), turn off the Closed Caption feature.
The TV screen is all blue.	You may have connected the receiver to an input on the TV that is incorrect for the signal output from the receiver.	<ul style="list-style-type: none"> • Check your TV owner's manual for the correct TV input to use for the signal output from the receiver. • Use the RECOVER button (page 88).

Favorites Lists

What Is Happening	Possible Reason	What to Do
You press the remote GUIDE button while the Program Guide is displayed. You find that you can apply only the All Chan, All Sub, or All HD list.	If you have not added channels to any custom Favorites List, you will be able to apply only the All Chan, All Sub, or All HD lists.	You must add channels to a custom Favorites List before you can apply it.
You try to change the All Chan, All Sub, or All HD list. The receiver displays an ERROR message.	The receiver will not allow you to change the All Chan, All Sub, or All HD lists.	Choose another list to change. The All Sub list includes all channels that are part of your subscription. The All HD list includes all high-definition channels that are part of your subscription.
You try to apply an empty Favorites List. The receiver displays an ERROR message.	The receiver will not allow you to apply an empty list.	Choose another list to apply, or add at least one channel to the empty list.
A Favorites List does not show channels that you know you have added to it.	If you have set the receiver to hide adult channels or hide locked channels, these channels are not included in the Program Guide or other channel lists.	Change the Hide Adult or Hide Locked setting on your receiver if you do not want these channels excluded from the Program Guide or other channel lists. Refer to page 49.

Timers

What Is Happening	Possible Reason	What to Do
You try to set up an event timer and the receiver displays a message noting that the program is locked.	You must enter the password before you can create an event timer for a locked program.	To create an event timer for the program, first enter the password.
You try to set up an event timer and the receiver displays a message noting that the program is a Pay-Per-View event.	You must order a Pay-Per-View event before you can create an event timer for it.	To create an event timer for the event, first order it.
You try to set up an event timer, but the receiver displays an Error message giving you the option to delete an event timer that was set up earlier.	You already have set up the maximum number of event timers.	To create a new event timer, delete one of the event timers you set up earlier.
You set up an event timer, but the receiver does not tune to the channel of the program, or does not record the program.	You may have set up a Reminder, but what you should have set up is an Auto-Tune or a DVR timer.	Remember that a Reminder just reminds you that the program is about to start. An Auto-Tune timer reminds you and tunes the receiver to the program. A DVR timer reminds you, tunes the receiver, and records the program to the receiver's hard drive. A DVR timer can operate only if the receiver memory has enough space.
You set up an event timer for a program that is repeated (such as a regularly scheduled program), but the timer does not operate for a showing of the program.	<ul style="list-style-type: none"> You may have set up a timer with an incorrect frequency. You may have set up a duplicate timer. The timer may not be current. 	Remember that a Once event timer operates just one time. A Mon.-Fri. event timer operates Monday through Friday on the same channel at the same time. A Daily event timer does the same, Monday through Sunday. A Weekly event timer operates once a week on the same channel at the same time. All Episodes timers will record all episodes of that program, while New Episodes timers will record only the current season. A DishPASS timer records programs matching your DishPASS search term. See <i>Reasons Why Timers are Skipped</i> on page 66.
You set up an event timer, but the timer does not operate at all.	<ul style="list-style-type: none"> You may have several timers set up for the same time and the event timer you set is at a lower priority than others. You may have selected New Episodes and the timer you set was for an episode that is not new. 	<ul style="list-style-type: none"> Check the Priorities as described on page 64. Check the Timer Frequency as described on page 64. See <i>Reasons Why Timers are Skipped</i> on page 66.
You set up a DishPASS timer and you notice that you have no space left on your My Recordings.	The DishPASS timer may have included more matching programs than what you expected.	Delete that DishPASS timer and begin again. See page 69.
You stop the operation of an event timer for one showing of a program that is repeated (such as a regularly scheduled program), but the timer operates for the next showing.	Stopping the event timer applies only to the current showing of the program.	To stop all operations of a repeated event timer, you must delete the event timer. Note: The receiver deletes a Once event timer when it operates.

Reference

Troubleshooting Tables

What Is Happening	Possible Reason	What to Do
You try to set up a manual event timer. The receiver displays an Error message.	You may have tried to set a manual event timer with invalid start or stop times.	Review the information on manual event timers on page 68.
The receiver does not display the program name for a manual event timer.	The receiver may not be able to display a program name for a manual event timer.	Use the Program Guide or a printed schedule to find the program name.
You set an event timer. The event timer misses the beginning or the end of a program.	The program may have started a little earlier than scheduled, or it may have run over its scheduled ending time.	<ul style="list-style-type: none"> Use the Start Early & End Late options, except for a Pay-Per-View event. Use a manual event timer to start any event timer at the times you set yourself, except for a Pay-Per-View event.

Hearing a Program

What Is Happening	Possible Reason	What to Do
The receiver's front panel power light is on and there is a good picture on the TV set, but you do not hear any sound.	<ul style="list-style-type: none"> You may have muted the sound, or set the volume so low that you cannot hear it. The audio connections may not be properly connected. You have selected Dolby Digital Only when there is no Dolby Digital soundtrack. 	<ul style="list-style-type: none"> Check the volume level on the TV or audio device. Turn off the mute or turn up the volume, as required. Check the audio connectors and cables from the receiver to the TV or the sound system. Check the TV speakers or the sound system. In the Dolby Digital menu, select Dolby Digital/PCM for the audio output. If your decoder/amplifier will not accept Linear PCM digital input, use the analog connections instead.
You hear a foreign language with a program.	You may have set the receiver to select an alternate audio language. The program may be in a foreign language.	Press the MENU button on your remote. From the Main Menu, select Preferences , then Alternate Audio , and choose the language that you prefer.

Caller ID

What Is Happening	Possible Reason	What to Do
Caller ID is not working.	<ul style="list-style-type: none"> You do not have Caller ID service from your local phone company. Your phone line is not connected to the phone jack on the back of the receiver. You do not have the Caller ID option enabled. 	<ul style="list-style-type: none"> Verify that Caller ID is a service provided by your local phone company and you have subscribed to it. Verify that you have connected the phone line to the phone jack on the back of the receiver. Press the MENU button on your remote. From the Main Menu, select System Setup, then Installation, and then Caller ID. Select the Enable Caller ID option.

Telephone for Voice/Data/FAX

What Is Happening	Possible Reason	What to Do
While you are making a telephone call, you hear "clicks."	The receiver may have tried to send Pay-Per-View purchase information to DISH Network using your phone line. When the receiver found that the telephone was busy, it automatically disconnected.	You do not have to do anything. You can always use your telephone line, because the receiver automatically hangs up if it finds the line is busy.
You pick up the telephone to make a call, but you do not hear a dial tone.	The receiver was sending Pay-Per-View purchase information to DISH Network using your phone line. When the receiver found that the telephone was busy, it automatically disconnected.	Hang up, and then pick up the telephone again to get a dial tone.
Your computer or FAX machine tries to send a FAX or modem transmission, but fails.	The receiver was sending Pay-Per-View purchase information to DISH Network using your phone line. When the receiver found that the telephone was busy, it automatically disconnected. The fax or modem found that there was no dial tone, and cancelled the transmission.	Re-send the FAX or modem transmission.
Your computer or FAX machine was receiving a FAX or modem transmission, but an error occurred.	The receiver may have tried to send Pay-Per-View purchase information to DISH Network using your phone line during the fax or modem call. When the receiver found that the telephone was busy, it automatically disconnected. This generated "clicks" that caused an error in the FAX or modem transmission.	Have the sender resend the FAX or modem transmission.

Reference

Troubleshooting Tables

Locks

What Is Happening	Possible Reason	What to Do
You set a lock (for example, a lock on programs by ratings), but the lock does not take effect.	You may not have locked the receiver.	You must lock the receiver to apply any lock that you have set.
You forgot the password, so that you are unable to unlock the receiver.	You may not have written down the password.	Call the Customer Service Center at 1-800-894-9131. You must be able to verify your account information with the customer service representative.

Buying a Pay-Per-View Program

What Is Happening	Possible Reason	What to Do
Someone orders a Pay-Per-View program without your permission.	You may have been away from the receiver, and someone else used it.	Lock the purchase of Pay-Per-View programs. Remember that you are responsible for all Pay-Per-View purchases, whether or not you authorize such purchases. If you lock Pay-Per-View purchases, then anyone who wants to order a Pay-Per-View program must enter the password.
You find that you are not able to order a Pay-Per-View program.	The receiver may not be connected to an active telephone line or broadband Internet connection.	Connect each receiver to a phone line or a broadband Internet connection for Pay-Per-View ordering using the remote control.
You find that you are not able to cancel a Pay-Per-View program.	You ordered a Pay-Per-View program, and then decided not to watch it.	You cannot cancel an order for a Pay-Per-View program, whether it was just ordered or ordered earlier.
Your setup includes more than one receiver. You order a Pay-Per-View program, but it does not appear on all of the receivers.	You ordered a Pay-Per-View program, and want it to be available on all the receivers in your setup.	If you want to watch a Pay-Per-View program on TVs connected on each receiver, you must order the program for each receiver but you only pay for the program once.

Menus

What Is Happening	Possible Reason	What to Do
You were using a menu, and it suddenly closed.	You may not have done anything with the remote control or front panel buttons for several minutes.	The receiver has a time-out feature that closes any menu after several minutes of no activity. This will discard any changes you have made, but otherwise does no harm to the receiver. Start over again.

REMOTE CONTROL DEVICE CODES

These tables contain the manufacturer codes for programming the remote to control your TV, VCR, DVD player, or audio amplifier. Every attempt has been made to include all codes. If your device brand is not listed or if the codes do not work, the remote may not control your device. In some cases, codes may operate some but not all buttons shown in this guide.

TV Codes

Programming in AUX mode: In most cases, use these codes to program in TV mode; if programming in AUX mode, press 0 before entering the TV code.

Abex 658 730	Brockwood 627	Dwin 572 739
Acer 511	Broksonic 682 748 750 752 754 834 899 908	EchoStar 742 763
Action 662	ByD:sign 792	Electroband 652 795 797 798 807
Admiral 521 572 675 739 834 835	Candle 506 523 525 536 627 654 840	Electrograph 507
Advent 653 842 912	Candle/Citizen 573	Electrohome 573 627 651 652 654 709 728 795 807
Adventura 840	Capehart 519 627	Element 591 669
Aiko 727 778	Carnivale 627	Emerson 528 534 536 541 573 590 618 627 642 646 654 655 657 658 662 664 668 682 683 733 777 816 832 834 846 899
Aiwa 667	Carver 761	Emprex 597
Akai 570 573 592 612 627 652 754 795 807 808 906 907 908	CCE 528 816	Envision 506 573 627 654
Alaron 534	Celebrity 652 795 797 798 807	Epson 708
Albatron 692 804	Celera 744 745	ESA 733
Alleron 534	Changhong 744 745	Fisher 542 590 595 683 802
A-Mark 620 804	Cineral 697	Fortress 573
Ambassador 686	Circuit City 627	Fujitsu 534 602 603 694
America Action 682	Citizen 506 516 523 524 525 590 627 654 657 658 664 680 727 778	Funai 534 541 587 657 662 682 694 733 756
Ampro 691	Clairtone 698	Futuretech 541 657 662 682 694
Amtron 657	Clarion 682	Gateway 507 511 710
Anam 682	Coby 626 633	General Electric 503 508 509 528 543 544 627 645 650 651 654 661 690 728 742 749 779 830 832 857 859
Anam National 509 541 620 651 657 662	Colortyme 573 627 654	Gibraltar 501 627 711 813
AOC 505 506 519 520 573 582 620 627 653 654	Colt 660	Go Video 696
Apex 552 595 743 744 745 757 771 802 815	Commercial Solutions 645 650	Goldstar 505 523 545 566 573 627 653 654 655 658 693 720 730 761 897
Archer 620 804	Concerto 523 627 654	Gradiente 540
Astar 594	Contec 682	Granada 627
Audiovox 528 565 620 623 624 657 662 682 778 832	Contec/Cony 541 655 657 658 662	Grand 627
Aventura 733	Craig 536 541 657 662 682 694	Grunpy 534 657 682
Axion 636	Crosley 761	Haier 515 843
Bang & Olufsen 514 665	Crown 536 656 657 682 761	Hallmark 627 654
Baycraft 536	CTX 804	Harley Davidson 756
Baysonic 682	Curtis Mathes 503 506 516 528 572 573 590 627 641 645 650 654 658 680 683 739 761 830 832	Harman/Kardon 561 627 761
Belcor 627 773	CXC 541 657 662 682	Harvard 657 682
Bell & Howell 590 675 683	Cytron 903 904	Havermy 572 739
Benq 511 535	Daewoo 505 524 528 530 531 573 627 630 653 654 658 664 684 719 727 778 816 832	Helios 901
Bradford 657 682	Daytron 627 654 658	Hello Kitty 528 832
Brilliant 558	Dell 518 676 772 773 774	Hewlett Packard 712 911
	Denon 786	Hinari 534
	DiamondVision 546 643 659	Hisense 759
	Dimensia 503 645 830	
	Dixi 566 620 761 897	
	Dumont 501 627 711 813	
	Durabrand 533 627 682 733 834 843	

Table continued on next page

Reference

Remote Control Device Codes

Hitachi 523 549 554 585 627 638 654
655 658 756 786 788 789 790 791
HP 599 712 721 911
Hyundai 695
iLo 559 596 625
IMA 657
Infinity 566 656 761 897
InFocus 616
Initial 625
Insignia 538 539 751
Inteq 501 711 813
Janeil 840
JBL 566 656 761 897
JC Penney see **Penney**
JCB 652 795 797 798 807
Jensen 502 537 556 573 627 653 654
842 912
JVC 508 557 642 649 655 658 713 714
715 735 736 737 812 817
Kawasho 561 573 627 652 654 795
807
Kaypani 519
KEC 682
Kenwood 506 573 627 654 716
KLH 595 744 745 802
Kloss 561 627
Kloss Novabeam 657 723 724 840
Konka 510
KTV 541 573 627 657 658 662 682
LG 553 627 653 654 693 718 766 773
804
Lloyd's 627 756
Lloytron 658
Loewe 566 656 761 897
Logik 675
Luce 699
Luxman 523 627 654
LXI 503 566 590 595 627 631 635 645
650 654 656 683 744 761 771 802 830
897
M. Wards see **Wards**
Magnasonic 573 664
Magnavox 506 520 525 536 550 560
566 567 568 573 625 627 646 654 656
723 724 756 761 762 777 818 827 828
829 838 839 887 888 891 892 893 894
897
Magnin 661
Majestic 675
Marantz 506 566 573 604 627 654 656
761 897

Matsushita 689
Maxent 507 581
Media Center 721
Megapower 804
Megatron 627 654
MEI 698
Memorex 529 590 627 648 653 654
675 683 834
MGA 504 505 506 542 571 573 627 653
654 661 728
Midland 501 508 645 650 658 711 730
813
Mintek 625
Minutz 857
Mitsubishi 504 505 542 570 571 572
573 613 614 627 653 654 725 728 739
787 799
Mitsui 769
Monivision 692 804
Montgomery Wards see **Wards**
Motorola 521 572 651 739 835
MTC 505 506 516 523 573 627 653 654
680
Multitech 657 682
Multivision 810
NAD 595 627 631 635 637 654 744 771
802
National 509
NEC 505 506 517 523 573 608 627 651
653 654 731 732 904
Net-TV 507 586 609 801
Nikkai 613
Nikko 627 654 727 778
Norcent 579
Normandic 717
Noshi 681
Novabeam 561 627
NTC 727 778
Nyon 627
Olevia 564 578 580 910
Onwa 541 657 662 682
Optimus 590 637 689
Optonica 521 572 607 739 835
Orion 694 726 834 899
Osaki 687
Panasonic 508 509 512 566 577 619
634 644 647 651 656 662 685 689 700
729 734 761 765 780 784 811 819 820
821 822 823 860 861 862 867 868 869
870 871 872 873 874 875 876 877 878
879 880 881 882 883 884 885 886 889
890 895 896 897 900
Panavision 734 811

Penney 503 505 506 508 516 525 543
595 627 631 645 650 653 654 658 661
680 690 728 730 744 771 802 830 857
Philco 505 506 525 532 536 568 573
627 651 653 654 655 656 658 723 724
761
Philips 525 527 548 550 563 566 621
625 627 651 655 656 658 690 723 724
747 761 770 782 824 825 826 827 828
839 887 888 891 892 893 894 897
Philips Magnavox 527 550 761 782
826 827 828
Pilot 627 658
Pioneer 547 576 627 637 654
PlasmSync 610
Polaroid 591 627 669 670 671 678 744
745 751 766 773 814
Portland 505 573 627 653 654 658 727
778
Price Club 680
Prima 653 673 674 842 912
Princeton 562 804
Prism 508
Proscan 503 645 650 742 749 830
Proton 513 519 536 585 627 654 655
658
Protron 589
Proview 902
Pulsar 501 627 711 813
Quasar 508 509 651 689 700 784 860
861 862 867 868 869 870 871 872 873
874 875 876 877 878 879 880 881 882
883 884 885 886 889 890 895 896
Radio Shack 503 541 590 607 627 645
650 654 655 657 658 662 682 683 730
756 830
RCA 503 505 522 627 630 636 641 645
650 651 653 654 661
742 749 776 779 805 830 831 863 864
902
Realistic 503 590 607 627 645 654 655
657 658 682 683 730 830
Rhapsody 701
Runco 501 627 711 813
Sampo 506 507 519 627 654 658 730
746 753 763
Samsung 505 506 516 523 566 573
601 627 653 654 655 658 680 707 717
730 738 755 761 794 833 858 897
Samsux 702
Table continued on next page

Remote Control Device Codes

Samwon 620
Sansei 697
Sansui 726 754 756 834 899 908
Sanyo 590 611 627 661 683
SBR 566 761 897
Sceptre 677
Schneider 566 761 897
Scimitsu 773
Scotch 627 654
Scott 534 541 627 654 655 657 658
 662 682
Sears 503 523 534 542 558 590 595
 627 631 635 645 650 654 658 683 733
 744 756 761 771 802 830 841 846
Seimitsu 627
Semivox 682
Semp 595 771
Sharp 521 572 585 605 607 627 628
 629 654 655 658 663 739 740 803 835
 836 898
Sharper Image 703
Sheng Chia 572 739
Shogun 627
Signature 675
Silver 573
Simpson 525
Solavox 613
Sony 500 640 652 756 758 781 783
 795 796 797 798 806 807 837 844 845
Soundesign 525 534 536 541 627 654
 657 662 682
Spectricon 520 620 627
Squareview 694 733 841 846
SSS 505 541 573 627 657 662 682
Starlite 657 682
Studio Experience 692
Superscan 572 646 739 741 767 777
Supra 523 627
Supre-Macy 840
Supreme 652 795 797 798 807
Susumu 687
SVA 515 901 905
Sylvania 506 525 536 566 568 569 573
 618 627 646 654 656 672 679 723 724
 733 756 761 764 777 897
Symphonic 632 657 662 679 682 694
 733 756 841 846
Syntax 564
Syntax-Brilliant 558 564
Tandy 521 572 739 835
Tatung 509 588 651
Technics 508 689
Technol ACE 534
Techview 590 683
Techwood 508 523 573 627 654
Teco 704
Teknika 504 505 512 516 523 524 525
 534 536 541 573 627 644 653 654 655
 657 658 662 675 680 682 685 727 761
 778
Telecaption 688
Telefunken 794
Tera 513
Thomas 627 756
Thompson 709
Thomson 705
TMK 523 573 627 654
TNCi 501 711 813
Toshiba 516 526 590 595 617 622 631
 635 666 680 683 688 744 750 754 755
 768 771 785 793 800 802 847 848 849
 850 851 852 854 855 865 866 908 909
Tosonic 698
Totevision 658
Toyomenko 627
Trical 706
Trutech 584
TVS 834
Universal 543 690 857
Universum 687
V Inc. 562 575
Vector Research 506 627
Victor 557
Video Concepts 570
Vidikron 761
Vidtech 505 573 627 653 654
Viewsonic 507 551 562 575 583 600
 606 760 796
Viking 840
Viore 907
Vizio 511 535 562 575 593 598 773
Wards 500 503 505 506 534 536 543
 567 568 573 595 607 627 645 653 654
 656 675 690 723 724 761 795 802 807
 830 857
Waycon 595 744 771 802
Westinghouse 528 562 574 575 795
 797 798 807 809 832 856
White Westinghouse 528 816 832 834
Yamaha 505 506 573 627 653 654
York 627
Zenith 501 553 555 615 627 639 675
 693 711 748 752 756 766 773 775 778
 813 834 853 899
Zonda 620 804

VCR Codes

Programming in AUX mode: In most cases, use these codes to program in VCR mode; press 1 before entering the VCR code if programming in AUX mode.

ABS 792
Adventura 588 594
Aiwa 501 588 594 676 678
Akai 513 518 568 682 772
Alienware 792
American High 554
Americast 917
Apex 517
ASA 556 801
Asha 675
Audio Dynamics 592
Audiovox 676 678
Bang & Olufsen 537 794
Beaumarck 675
Bell & Howell 581
Broksonic 511 515 516 525 559
Calix 676 678
Candle 534 592 594 675 676 678
Candle/Citizen 675 676
Canon 554
CineVision 529
Citizen 534 536 591 592 594 678
Colortyme 592
Colt 535
Craig 591 676 678 789
Curtis Mathes 554 585 592 594 605
 607 649
Cybernex 675
Cyberpower 792
Daewoo 534 536 559 588 796
Davidson 594
DBX 592
Dell 792
DiamondVision 532
Dimensia 585 607 649
DIRECTV 649
Dumont 549
Durabrand 533
Dynatech 588 594
Electrohome 512 676 678
Electroponic 676 678
Emerson 508 512 518 534 536 554 559
 568 588 594 676 678 798 804
ESA 502
Finlandia 549

Table continued on next page

Reference

Remote Control Device Codes

Finlux 549 556 801	MGA 512 567 568 675	Runco 533
Fisher 549 581 789	MGN Technology 675	Salora 567
Fuji 554 772	Microsoft 792	Samsung 506 524 534 591 755 807
Funai 588 594 804	Midland 591	Sanky 533
Garrard 588 594	Mind 792	Sansui 515 516 544 550 562 594 682
Gateway 792	Minolta 595 776	Sanyo 549 581 675 789
General Electric 541 554 585 591 605 607 649 675	Mitsubishi 512 562 567 568 595 607 776	SBR 556 801
Go Video 522 524	Montgomery Wards see Wards	Scott 534 559
Goldstar 592 594 676 678	Motorola 554	Sears 549 554 581 594 595 676 678 776 789
Goodmans 585	MTC 544 594	Sharp 512 585 607 918
Gradiente 588 594	Multitech 588 591 594	Shintom 595 772
Granada 549	NEC 562 581 592 594 682	Shogun 675
Grundig 556 801	Nikko 676 678	Singer 554 791
Harley Davidson 588 594	Niveus Media 792	Sony 500 594 768 772 778 790 791 792 919
Harman/Kardon 568 592	Noblex 675	Stack 792
Headquarter 581	Northgate 792	Stack 9 792
Hewlett Packard/HP 792	Olympus 554	STS 554
Hi-Q 789	Optimus 676 678 786	Superscan 531 798 804
Hitachi 514 539 540 594 595 682 776	Optonica 585	Sylvania 519 554 556 567 588 594 756 798 801 804
Howard Computers 792	Orion 550	Symphonic 588 594 804
Hush 792	Panasonic 554 614 628 770 777 780 781 782 783 784 786 787 788 799 809 810	Systemax 792
iBuyPower 792	Penney 554 581 591 592 595 675 676 678 776	Tagar Systems 792
Insignia 507	Pentax 595 776	Tandy 581
Instant Replay 554	Pentex Research 592 594	Tashiko 676 678
ITT 675	Philco 554	Tatung 682
JC Penney see Penney	Philips 554 556 585 801 803 804	Teac 588 594 682
JCL 554	Philips Magnavox 801	Technics 554
Jensen 595 682 776	Pilot 676 678	Teknika 554 588 594 676 678
JVC 503 504 523 526 527 545 561 562 581 592 594 682 795	Pioneer 562 776	Thomas 594
KEC 676 678	Polaroid 517 530	TMK 675
Kenwood 562 581 592 594 682	Presidian 804	Toshiba 534 538 542 543 567 769 776 783 792
Kodak 554 676 678	Proscan 585 605 607 649	Totevision 591 676 678
LG 507 676 678	Pulsar 533	Touch 792
Linksys 792	Quarter 581	UltimateTV 649
Lloyd's 588 594	Quartz 581	Unitech 675
Luxor 567	Quasar 554 770 771 786 806	Vector Research 534 592
LXI 676 678		Victor 561 562
M. Wards see Wards		Video Concepts 534 568 592
Magnasonic 536	Radio Shack 512 554 581 588 594 676 678 789	Videomagic 676 678
Magnavox 533 554 556 594 797 798 801 803 804	Radix 676 678	Videosonic 591
Magnin 675 676 678	Randex 676 678	Viewsonic 792
Marantz 554 556 581 585 592 594 801	RCA 518 528 541 554 585 591 595 605 607 649 675 773 774 775 776	Villain 594
Marta 676 678	Realistic 534 549 554 581 585 588 594 676 678 789	Voodoo 792
Matsushita 554	Ricovision 792	Wards 512 534 554 585 588 591 594 595 676 678 776 789
Media Center PC/Microsoft 792	Ricoh 791	White Westinghouse 588
MEI 554		<i>Table continued on next page</i>
Memorex 515 516 533 549 550 554 581 585 588 594 676 678 786 789		

Remote Control Device Codes

XR-1000 554 588 594
Yamaha 581 592 594 682
Zenith 500 507 533 594 772 779 791
ZT Group 792

Tuner/Amplifier Codes

If programming in **AUX mode**: Press 2 before entering the tuner/amplifier code.

Accuphase 690
Acoustic Research 703 853
Acurus 691
ADC 652
Adcom 644 673
Admiral 747
ADS 748
Aiwa 636 667 681 685 718 720 725 730 839
Akai 740
Alco 659
Alpine 749
Altec Lansing 738
AMC 855
Amphion Media Works 660
Amplifier Technologies 710
AMW 660
Anam 653
Angstrom 692
Anthem 750
Apex 812
Aragon 691
Arcam 726
Atlantic Technology 712
Audio Research 751
Audio Source 693
Audiotronic 685
Audiovox 659 826
B&K 752
Bang & Olufsen 676
Bel Canto Design 694
Biamp 695
Blaupunkt 854
BOSE 639 656 761
Boston Acoustics 713
Brix 744
Brumester 647
California Audio Labs 686
Cambridge SoundWorks 831
Capetronic 652
Carver 685 725
Cary Audio Design 689

Casio 717
CCE 802
Chase Technologies 687
Cinema Sound 696
Clarinet 717
Clarion 753
Classe 697
Classic 819
Coby 811
Counterpoint 754
Craig 856
Creative 723
Criterion 734
Crown 857
Curtis 815
Curtis Mathes 772
Daewoo 727
Dell 729
Delphi 755
Denon 669 670 680 759 760 762 809
Digital Audio Control 688
Durabrand 698
Dynalab 858
EAD 756
Eclipse 665
Elan 699
Emerson 820
ESA 757
Fisher 850
Fosgate 700
Garrard 851
Gateway 743
General Electric 638
Glory Horse 728
Go Video 742
Goldstar 814
GPX 834
Gradiente 682
Halfer 758
Harman/Kardon 640 685 725
Hitachi 850
Honyas 770
iLive 835
Initial 735
Inkel 714
Insignia 825
Integra 650
Jamo 837
JBL 642
JC Penney see **Penney**
Jensen 775
JVC 637 663 786 827 848
Kenwood 658 662 668 774 795 828

829 830 840
KLH 659
Knoll Systems 701
Koss 739
Lasonic 746
Left Coast 640
Lenox 736
Lexicon 724
LG 836
Linn 685 725
Liquid Video 739
Lloyds 717
Logitech 702
Luxman 704
LXI 716
M. Wards see **Wards**
Magnadyne 776
Magnavox 652 654 685 725
Marantz 640 645 685 725 764
Mark Levinson 705
McIntosh 706
MCS 719
Memorex 777
Midland 707
Mitsubishi 859
Modulaire 717
Motorola 737
NAD 648
Nakamichi 649
NEC 641
Nexxtech 711
Nikko 708
Niro 779
Norcent 731
Nova 780
Omnifi 745
Onkyo 671 785 788 790 791 838
Optimus 635 652 653 772 845
Oritron 739
Panasonic 643 677 678 783 797 799 808 810 817 818 821
Parasound 647
Penney 717
Philco 781
Philips 640 685 725
Philips Magnavox 860
Pioneer 635 652 664 666 767 772 806 813 844 845
Polaroid 679
Polk Audio 640 645 685 764
Proscan 703 853
Proton 654

Table continued on next page

Reference

Remote Control Device Codes

Pyle 782
Quasar 799
Radio Shack 717 728
RCA 635 652 653 659 675 703 772 842
845 852 853
RCA & Dimensia 703 853
Realistic 717
Regent 736
Rio 661
Rotel 674
Saba 741
Samsung 807
Sansui 685 725
Sanyo 824 850
Schneider 787
Scientific Atlanta 721
Scott 715
Sharp 832
Sharper Image 728
Sherwood 833
Shinonic 789
Shure 641
Sonic Blue 661
Sony 683 730 765 766 769 771 773 778
784 793 794 803 846
Soundesign 638
Soundmatters 763
Soundstream 709
Stereophonics 635 845
STS 792
Sunfire 658 840
Symphonic 747
TAG McLaren 796
Teac 653 659
Technics 643 672 768 804 805 808
Techwood 798
Thomson 800
Thorens 685
Toshiba 822
Vector Research 801
Venturer 659
Victor 637 827
Wards 635 638 685 725
Yamaha 646 650 651 655 657 663 684
732 733 786 823 841 847 848 849
Yorx 717
Zenith 814

DVD Player Codes

Programming in AUX mode: In most cases, use these codes to program in VCR mode; press 1 before entering the VCR code if programming in AUX mode.

Accurian 602
Advent 572
Aiwa 694
Akai 656 752 815
Alco 765
Allegro 683
Alpine 653
Amphion MediaWorks 586
AMW 586
Anaba 687
Anam 688
Apex 654 655 744 757 835 839 851
Apple 642
Archos 885
Arrgo 833
Aspire 558
Astar 612
Audiologic 698
Audiovox 580 630 765 826 837
Axion 867
B&K 701
Bang & Olufsen 569 580
Bel Canto Design 719
Blaupunkt 835
Blue Parade 719
BOSE 758 811
BOSS 576
Broksonic 656 752 815
California Audio Labs 699 716
Cambridge SoundWorks 870
CAVS 708
CineVision 626
Clarion 696
Classic 695 826 882
Coby 557 634
Criterion 712
Curtis 685
Curtis Mathes 684
CyberHome 833
Cytron 904
Daewoo 626 657 859
Denon 578 697 699 700 716 737 892
Desay 598
DiamondVision 637 641

Disney 617
Dual 871
Durabrand 826
DVD2000 699 716
Eclipse 574
Eltax 685
Emerson 570 617 658
Enterprise 824
ESA 570 587
Fahrenheit 713
Fisher 659
Flex Vision 717
Fun TV 718
Funai 570 617 658 829
Gateway 610
General Electric 702 703 720 749 816
835
Go Video 610 692 693 822 826
Goldstar 611 673 824
GPX 704 826 882
Gradiente 699 716
Greenhill 835
Grundig 565 577
Harman/Kardon 715
Hitachi 606 660 668 705 706 707 823
860
Hiteker 654 655 744
Honda 721
Honyas 726
iLive 856
iLo 837
Ingelen 876
Initial 835
Insignia 570 673 824 871
Integra 551 779
Irradio 608
Jamo 728
Jaton 738
JBL 715
Jeken 878
Jensen 557
JMB 656 815
JVC 553 603 604 620 621 622 623 625
689 850 861 862 863 872 898
Jwin 742
Karcher 864
Kawasaki 765
Kendo 848
Kenwood 579 699 700 716 737
KLH 765 835

Table continued on next page

Remote Control Device Codes

Konka 753
Koss 564 723 745 873
Lasonic 593
Lennox 560 826
Lexia 857
Lexicon 743
LG 615 673 824 899
Lifetec 634
Limit 857
Liquid Video 564
LiteOn 602 610
Loewe 746
LogicLab 857
Logix 852
Lumatron 673 824
Luxman 844
Luxor 848
Magnavox 565 570 577 601 617 650 658
 661 672 674 679 854
Malata 747
Marantz 565 577
Memorex 656 658 709 815
Microsoft 703 720 749 816
Mintek 710 835
Mitsubishi 767
Momitsu 748
NAD 673 824
Nakamichi 596
Nesa 835
Next Base 680
Nexxtech 599
Niro 750
Nissoho Iwai 718
Norcent 634 711
Onkyo 551 672
Oppo 566
Optiview 687
Oritron 564 723
Panasonic 624 627 638 662 663 672
 699 714 716 734 737 813 840 841 855
Philco 686
Philips 565 572 577 617 672 764 766
 873 874
Pioneer 665 719 812 877 879 880
Polaroid 586 617 635 636 640 647 651
 677 851
Polk Audio 565 577
Portland 751
Presidian 617
Prima 759
Princeton 760
Proceed 654 655 744
Proscan 703 720 749 816
Provision 761
Pye 674
Qwestar 723
RCA 616 666 690 703 719 720 749 765
 816 835 842 901
Regent 560
Rio 683
Rotel 553 850 861
Rowa 555
Saba 762
Sampo 724
Samsung 571 606 643 644 652 667
 668 691 699 716 740 741 805 820 821
 844 845 849 866 869 875 881 895 896
 900
Sansui 656 725 754 815
Sanyo 609 656 659 815
Sensory Science 610
Sharp 573 617 669 727 865 903
Sharper Image 763
Sherwood 870
Shinco 589
Shinonic 731
Sigma Designs 760
SonicBlue 683
Sony 582 613 618 632 670 671 729
 730 731 817 818 827 830 831 832 836
 838 843 846 847 858 868 883 884 902
Sungale 597
Superscan 570
SVA 800
Sylvania 570 617 619 631 639 645 658
 764 829
Symphonic 617 658
Teac 732 765
Technics 699 716 733
Technosonic 886
Techwood 664
Terapin 887
Theta Digital 719
TiVo 888
Toshiba 575 583 584 646 648 656 672
 735 736 814 815 819 825 828 834 893
 894
Tredex 889
Trutech 833
TView 687
Urban Concepts 672
US Logic 681
Venturer 765
Vizio 897
Vocopro 890
Westinghouse 629

Xbox 703 720 749 816
Xwave 891
Yamaha 565 577 699 716 737 739 853
Zenith 611 672 673 824

Digital Video Recorder (DVR) Codes

If programming in AUX mode: Press 1 before entering the DVR code.

ABS 792
Alienware 792
Americast 917
Bang & Olufsen 794
BellSouth 917
CyberPower 792
Dell 792
Director 913
DIRECTV 521 910 911 916
Gateway 792
General Instrument 913
GOI 722
Hewlett Packard 792
HNS 521
Howard Computers 792
HP 792
HTS 722
Hughes Network Systems 521 910
Humax 910
Hush 792
iBUYPOWER 792
Jerrold 913
JVC 722
Linksys 792
Media Center PC 792
Microsoft 792
Mind 792
Motorola 913
Niveus Media 792
Northgate 792
Pace 914
Panasonic 907
Philips 521 548 906 910
Pioneer 914
Proscan 916
RCA 521 911 916
ReplayTV 907 912
Samsung 521
Scientific Atlanta 914

Table continued on next page

Reference

Remote Control Device Codes

Sharp 573
Sonic Blue 907
Sony 510 520 548 905 906 908 909
Stack 9 792
Supercable 915
Systemax 792
Tagar Systems 792
TiVo 510 520 548 905 906 908 909 910
 911
Toshiba 792
Touch 792
UltimateTV 916
Viewsonic 792
Voodoo 792
Zenith 917
ZT Group 792

TV/DVD Combo Codes

Note: Program the remote in TV mode using the TV code and in DVD mode (or in AUX mode—press 1 before entering the DVD code) using the DVD code.

	TV Code	DVD Code
Apex	757	757
Audiovox	624	630
Axion	636	867
Broksonic	750	752
Cytron	904	904
Magnavox	838	679
	839	650
Panasonic	811	734
Polaroid	671	647
	678	677
	745	635
RCA	830	749
	830	816
	830	703
Sansui	754	754
Sharp	605	573
	898	573
Sylvania	672	645
	764	764
	777	639
	733	764
Toshiba	622	815
	750	815
	800	646
	865	814
	866	815
	908	815

TV/VCR Combo Codes

Note: Program the remote in TV mode using the TV code and in DVD mode (or in AUX mode—press 1 before entering the VCR code) using the VCR code.

	TV Code	VCR Code
Aiwa	667	501
Bang & Olufsen	665	537
Colt	660	535
GE	661	675
Magnin	661	675
MGA	661	675
Magnavox	887	797
	888	797
Panasonic	765	799
Penney	661	675
Philips	887	801
Quasar	860	770
	860	771
	860	806
	868	770
	870	770
RCA	503	649
	661	675
	749	775
	830	649
Samsung	755	807
Sanyo	661	675
Sylvania	756	519

DVD/VCR Combo Codes

Note: Program the remote control in DVD mode using the DVD code, and then in AUX mode, first pressing 1 and then using the VCR code.

	DVD Code	VCR Code
GoVideo	693	522
	822	524
Panasonic	734	780
	734	777
RCA	690	528
Sansui	815	515
Sony	817	778

TV/DVD/VCR Combo Codes

Note: Program the remote control in TV mode using the TV code, in DVD mode using the DVD code, and finally in AUX mode, first pressing 1 and then using the VCR code.

	TV	DVD	VCR
DiamondVision	659	532	641

TV/DVD/Tuner Combo Codes

Note: Program the remote control in TV mode using the TV code, then in DVD mode using the DVD code, and finally in AUX mode (press 2 before entering the listed tuner/amplifier code) using the tuner code.

	TV	DVD	Tuner
Panasonic	811	734	678

TV/VCR/Tuner Combo Codes

Note: Program the remote control in TV mode using the TV code, then in DVD mode using the VCR code, and finally in AUX mode (press 2 before entering the listed tuner/amplifier code) using the tuner code.

	TV	VCR	Tuner
Panasonic	873	783	836
Panasonic	874	784	833
Panasonic	875	785	826
Panasonic	876	786	825
Panasonic	877	787	824
Panasonic	878	788	822
Panasonic	879	789	821
Panasonic	880	790	820
Panasonic	881	791	819
Panasonic	882	792	818
Panasonic	883	793	817
Panasonic	884	794	816
Panasonic	885	795	815
Panasonic	889	809	808

Appendix



Appendix

What you'll find in this chapter:

- **LIMITED WARRANTY**
- **RESIDENTIAL CUSTOMER AGREEMENT**
- **FCC COMPLIANCE**

LIMITED WARRANTY



This Limited Warranty is a legal document. Keep it in a safe place. Remember to retain your Bill of Sale for warranty service! Any items returned without a copy of the Proof of Purchase will be considered out of warranty.

What the Warranty Covers

This warranty extends only to the original user of the equipment and is limited to the purchase price of each part. EchoStar Technologies Corporation and its affiliated companies ("EchoStar") warrant this system against defects in materials or workmanship as follows:

- **Labor:** For a period of one (1) year from the original date of purchase, if EchoStar determines that the equipment is defective subject to the limitations of this warranty, it will be replaced at no charge for labor. EchoStar warrants any such work done against defects in materials or workmanship for the remaining portion of the original warranty period.
- **Parts:** For a period of one (1) year from the original date of purchase, EchoStar will supply, at no charge, new or re-manufactured parts in exchange for parts determined to be defective subject to the limitations of this warranty. EchoStar warrants any such replacement parts against defects in materials or workmanship for the remaining part of the original warranty period. **Note:** "Parts" means items included in this package, which may include the satellite dish assembly, receiver, LNBF, remote control, or dish mounting hardware. It does not include other parts purchased separately.

What the Warranty Does Not Cover

- This warranty does not cover installation of the system. If applicable, such installation will be warranted under a separate installation agreement.
- This warranty does not cover consumer instruction, physical setup or adjustment of any consumer electronic devices, remote control batteries, signal reception problems, loss of use of the system, or unused programming charges due to system malfunction.
- This warranty does not cover cosmetic damage, damage due to lightning, electrical or telephone line surges, battery leakage, fire, flood, or other acts of Nature, accident, misuse, abuse, repair or alteration by other than authorized factory service, use of accessories not recommended by the receiver manufacturer, negligence, commercial or institutional use, or improper or neglected maintenance.
- This warranty does not cover equipment sold AS IS or WITH ALL FAULTS, shipping and handling, removal or reinstallation, shipping damage if the equipment was not packed and shipped in the manner prescribed, nor equipment purchased, serviced, or operated outside the continental United States of America.

Legal Limitations

REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. ECHOSTAR SHALL NOT BE HELD LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY ON THIS SYSTEM, NOR FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF, OR INABILITY TO USE, THIS SYSTEM. UNDER NO CIRCUMSTANCES SHALL ECHOSTAR'S LIABILITY, IF ANY, EXCEED THE PURCHASE PRICE PAID FOR THIS SYSTEM. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS SYSTEM IS LIMITED IN DURATION TO THE PERIOD OF THIS WARRANTY. ECHOSTAR RESERVES THE RIGHT TO REFUSE TO HONOR THIS WARRANTY IF ECHOSTAR DETERMINES ANY OF THE ABOVE EXCEPTIONS TO HAVE CAUSED THIS SYSTEM NOT TO HAVE PERFORMED PROPERLY. THIS WARRANTY SHALL BE VOID IF ANY FACTORY-APPLIED IDENTIFICATION MARK, INCLUDING BUT NOT LIMITED TO SERIAL OR CONDITIONAL ACCESS NUMBERS, HAS BEEN ALTERED OR REMOVED. THIS WARRANTY SHALL ALSO BE VOID IF THE RECEIVER HAS BEEN OPENED BY AN UNAUTHORIZED PERSON.

If You Need Assistance

- 1 Call the Customer Service Center at 1-800-894-9131. Have the date of purchase and either your customer account number, the receiver conditional access number, or the receiver model number ready. Display the System Info menu to find these numbers.

- 2 A Customer Service Representative will assist you.
- 3 If the Representative determines you should return any equipment, you will be directed to call a Return Authorization representative. Before shipping any equipment, you must talk to a Return Authorization representative and must obtain a Return Authorization (RA) number.
- 4 You will be given the appropriate address for which to return your equipment. Whether under warranty or not, you will be responsible for the cost of shipping back the defective equipment. For faster service, see the Advance Exchange Program below.
- 5 Returned equipment must be packaged properly, using either the original shipping materials or the packaging in which the replacement equipment is shipped. Include a copy of the Bill of Sale. Any items returned without a copy of the Proof of Purchase will be considered out of warranty. Follow the instructions given to you by the Customer Service Representative.
- 6 Write the RA number in large, clearly visible characters on the outside of the shipping box that you use to return the equipment. To avoid confusion and misunderstandings, shipments without an RA number clearly visible on the outside of the box will be returned to you at your expense.

DISH Network's Exchange Programs

DISH Network offers two options if you need to replace your satellite receiver equipment or its accessories.

Advance Exchange Program

The Advance Exchange Program allows you to have replacement equipment shipped immediately to you (depending upon where you live, it could take three to five business days). Along with replacement equipment, you will receive a prepaid shipping label and instructions on how to return the defective equipment. The shipping charge, for receiving replacement equipment and returning the defective equipment, is a one-time fee based on EchoStar's competitive bulk shipping rates (additional charges may apply outside of the continental US). This fee will be charged to your billing account or your valid credit card. If you do not ship the defective equipment to EchoStar within ten days after receiving the replacement, your billing account or credit card will be charged the market price of the replacement. If you return the defective equipment after ten days, you will receive a full refund less an administrative fee.

If your equipment is out of warranty and can be repaired your billing account or credit card will be charged the standard repair fee for the replacement. If damage to the defective equipment is found, which EchoStar in its sole discretion determines has voided the warranty, or makes the equipment unrepairable, billing account or credit card will be charged the market price of the replacement.

Post Receipt Exchange Program

You may choose to ship the equipment to us at your cost. To provide faster service, upon receipt of your equipment you will be shipped a replacement. Your original equipment will not be available for return.

The equipment you return will be checked to verify whether it is covered under this warranty. If the defective equipment is covered under this warranty, it will be replaced and shipped back to you at no additional cost (additional charges may apply outside of the continental US).

If your equipment is out of warranty and can be repaired your billing account or credit card will be charged the standard repair fee for the replacement. If damage to the defective equipment is found, which EchoStar in its sole discretion determines has voided the warranty, or makes the equipment unrepairable, your billing account or credit card will be charged the market price of the replacement.

Accessory Warranty

An accessory is any DISH Network branded equipment, displaying the DISH Network logo, excluding the receiver, cables and hookups, and non-mechanical components. A one-year warranty becomes effective upon the activation of the DISH system or date of purchase, if bought separately. A proof of purchase is required to verify the purchase date. If an accessory has an expired warranty, no exchange will be issued. You may purchase replacement accessories from DISH Network or your local retailer.

Residential Customer Agreement

RESIDENTIAL CUSTOMER AGREEMENT

Thank you for choosing DISH Network®.

To view this Residential Customer Agreement in Spanish, please visit www.dishnetwork.com or call us at 1-800-894-9131 and we will send you a copy. Para ver este acuerdo en español por favor visite www.dishnetwork.com o llame al 1-800-894-9131 y le enviaremos una copia.

DISH Network is happy to answer any questions you may have and to provide you with technical and other customer support. You may contact us 24 hours a day, any day of the year:

Phone: 1 (800) 894-9131
Email: care@dishnetwork.com
Mail: DISH NETWORK CUSTOMER SERVICE CENTER
P.O. BOX 9033
LITTLETON, CO 80160
Website: www.dishnetwork.com

For purposes of this Residential Customer Agreement (the "Agreement") and any customer agreement(s) applicable to the promotion(s) under which you are receiving services and/or equipment from DISH Network (each, a "Promotion Agreement"): (i) "you" and "your" refer to you, the DISH Network subscriber; and (ii) "DISH Network", "we," "us" or "our" refer to DISH Network L.L.C. (formerly known as EchoStar Satellite L.L.C.) or, where applicable under the particular circumstances, third party billing agents.

"DISH Network" is a registered trademark of DISH Network L.L.C.

THIS AGREEMENT, TOGETHER WITH ANY APPLICABLE PROMOTION AGREEMENT, SETS FORTH THE TERMS AND CONDITIONS UNDER WHICH DISH NETWORK WILL PROVIDE ITS SERVICES AND EQUIPMENT TO YOU. THIS AGREEMENT IS EFFECTIVE UNTIL WE CHANGE OR REPLACE IT. IF YOU ARE A NEW DISH NETWORK CUSTOMER, YOUR ACTIVATION OF A DISH NETWORK ACCOUNT AND RECEIPT OF DISH NETWORK SERVICES OR EQUIPMENT SHALL CONSTITUTE YOUR ACCEPTANCE OF THIS AGREEMENT. IF YOU ARE AN EXISTING DISH NETWORK CUSTOMER, WE WILL NOTIFY YOU OF ANY CHANGES TO, OR REPLACEMENT OF, THIS AGREEMENT, AND YOUR CONTINUED RECEIPT OF DISH NETWORK SERVICES OR EQUIPMENT FOLLOWING RECEIPT OF SUCH NOTICE SHALL CONSTITUTE YOUR ACCEPTANCE OF SUCH CHANGED OR REPLACED AGREEMENT. IF YOU ARE AN EXISTING CUSTOMER AND DO NOT WISH TO ACCEPT ANY CHANGED OR REPLACED AGREEMENT, YOU MUST NOTIFY US IMMEDIATELY AND WE WILL, AT OUR OPTION, EITHER CANCEL YOUR SERVICE OR ALLOW YOU TO CONTINUE TO RECEIVE YOUR SERVICES UNDER THE PREVIOUS VERSION OF THIS AGREEMENT.

1. THE DISH NETWORK SERVICE

A. **Services Defined.** "Services" shall mean all video, audio, data, interactive and other programming services and all other services that are currently available from DISH Network (whether subscription, pay-per-view or otherwise) and that we may provide to customers in the future.

B. **Minimum Programming Levels.** If your applicable Promotion Agreement specifies required minimum programming, you must subscribe to such programming. Otherwise, you must subscribe to one or more of the following programming packages, or we may charge you a Service Access Fee (as detailed in Section 2(D)): DishFAMILY, DishMEXICO, TurboHD Bronze or a higher version of such packages; a Chinese, Greek, Russian, Polish, Urdu, Arabic, Portuguese, or Hindi language programming package; a combination of Locals Only and one of TV Globo/Record Package, TV Globo a la carte, Israeli Platinum Package, Panorama Italiano, TV Japan, Polish Premium Pack, Bangla Mega Pack, Punjabi Pack, Telugu Pack, Pinoy Mega Pack, German Language Plus Package, or RTVI/RTVI+ Package; or any of their successor packages. We may change such minimum programming requirements at any time.

C. **Programming Availability.** Certain Services, including without limitation, some subscription Services, sporting events and broadcast network Services, may be blacked out in your viewing area; if you circumvent or attempt to circumvent any of these blackouts, you may be subject to legal action. If the location at which you are receiving Services is a wagering location, you are not eligible to receive certain channels, including without limitation, Horse Racing Television (HRTV). You must be at least 18 years of age, or the applicable age of majority where you reside, to order or receive adult-oriented programming services.

D. **Changing Your Programming Selection.** Unless otherwise specified in this Agreement or any applicable Promotion Agreement(s), you may change your programming selection at any time by notifying us. A Transaction Fee (as detailed in Section 2(D)) may apply to such programming changes, unless you are receiving Services and/or Equipment (as defined in Section 4(A)) pursuant to a Promotion Agreement that requires you to pay in full for all Services and/or Equipment prior to receiving such Services and/or Equipment (a "Pre-Pay Promotion").

E. **Multi-Month Subscriptions.** For multi-month subscriptions, you may downgrade your Services only when you renew. You may not downgrade your Services during the term of a multi-month subscription.

F. **Ordering Pay-Per-View.** You may use your remote control and on-screen program guide to order pay-per-view Services through your television if you DISH Network receiver is connected to a land-based telephone line and/or a broadband home network. You may also order DISH Network pay-per-view Services by calling 1-877-DISH-PPV (3474-778) and using our automated system, or speaking with a live operator at one of our customer service centers; in either case, a fee will apply as detailed in Section 2(D). Pre-Pay Promotion customers may only order pay-per-view Services by calling 1-877-DISH-PPV (3473-778).

Residential Customer Agreement

G. Accessing the Internet Through Your Receiver. Some of our receivers can be used to access websites and information on the Internet. Neither DISH Network nor EchoStar Technologies L.L.C. ("EchoStar") has any control over such websites and information, and neither we nor EchoStar make any representations, warranties or guarantees as to the availability or content of such websites and information, including without limitation: (i) the accuracy, availability, sequence, completeness, timeliness, copyright compliance, legality, content, validity, or quality of any such websites or information; or (ii) whether using the software contained in such receivers may result in accessing unintended, inappropriate or objectionable content. We and/or EchoStar may change, limit, suspend, disable and/or remove your ability to access the Internet using your receiver at any time without notice. We and/or EchoStar may also limit or restrict the websites and information that you may access on the Internet using your receiver at any time without notice.

H. Private Home Viewing Only. DISH Network provides Services to you solely for viewing, use and enjoyment in your private home. You agree that no Services provided to you will be viewed in areas open to the public, commercial establishments or other residential locations. Services may not be rebroadcast or performed, and admission may not be charged for listening to or viewing any Services. If your Services are viewed in an area open to the public, a commercial establishment or another residential location, we may disconnect your Services and, in addition to all other applicable fees, you must pay us the difference between the price actually paid for Services and the full applicable rate for such Services, regardless of whether we have the right to distribute such Services in such other location.

I. Changes in Services Offered. We may add, delete, rearrange and/or change any and all programming, programming packages and other Services that we offer, as well as the prices and fees related to such programming, programming packages and Services, at any time, including without limitation, during any term commitment period to which you have agreed. If a change affects you, we will notify you of such change and its effective date. In the event that we delete, rearrange or change any programming, programming packages or other Services, we have no obligation to replace or supplement such programming, programming packages or other Services. You are not entitled to any refund because of a deletion, rearrangement or change of any programming, programming packages or other Services.

J. Promotional Offers and Items. If a third party, such as an independent DISH Network retailer, integrator or private cable operator, offered you a promotional offer or item in connection with your subscription to the Services, such third party is wholly responsible for fulfilling such promotional offer or providing such promotional item, and DISH Network is not in any way responsible for such fulfillment.

2. BILLING POLICIES; PAYMENTS FOR SERVICES; FEES

A. Payments. You agree to pay all amounts billed for Services, as well as all taxes, fees and other charges, if any, that are now or may in the future be assessed in connection with any Services you receive from us, and any other charges due and owing to us. State and local taxes or reimbursement charges for gross earnings taxes imposed on satellite providers for transmission of programming in some states may apply. Unless you prepay for a multi-month subscription to Services or prepay for all Services as required by your participation in a Pre-Pay Promotion, we will bill you monthly in advance for most Services and in arrears for other Services such as pay-per-view ordered by you or anyone who uses your Equipment, whether with or without your permission, until you cancel your Services. Multi-month subscription customers and Pre-Pay Promotion customers will be billed based on your pre-pay period (multi-month subscriptions) or monthly (Pre-Pay Promotion customers), and must make all payments in advance of the due date on your bill in order to continue receiving your Services; you must also pre-pay for all other Services, such as pay-per-view, ordered by you or anyone who uses your Equipment, whether with or without your permission.

B. Billing Policies. Your bills will show the total amount due, the payment due date, payments, credits, purchases and other charges to your account. You may submit your payment by mail, on our website, through our AutoPay program, by calling a DISH Network customer service representative, or by any other means that we designate. Partial payments will be applied first to the oldest outstanding bill. You must make your payment regardless of whether you receive a bill. We do not assume the risk of undelivered mail. If you send checks or money orders marked with a designation such as "payment in full," we can accept them without waiving any of our rights, including without limitation, our rights to collect any other amounts owed by you, notwithstanding your characterization of such payment. DISH Network does not extend credit to our customers, and the Late Payment Fee (as detailed in Section 2(D)) is not interest, a credit service charge or a finance charge. Certain fees and charges may apply in certain circumstances to your payment for the Services, including without limitation, those set forth in Section 2(D).

C. Alterations to Payment Terms. If you pay for a monthly subscription (other than a Pre-Pay Promotion) and your account is past due on more than one occasion, we may require that you pay for all Services and Equipment before you receive them, and you will be deemed to be receiving your Service under a Pre-Pay Promotion, at which point, all terms and conditions of such Pre-Pay Promotion will apply to you. If you paid for a multi-month subscription to any Services and your account is past due for any amount, we may convert your multi-month subscription to a monthly subscription, and we will first apply the amount you paid for your multi-month subscription to any past due amounts and then to any obligations you incur in the future.

D. Fees. In addition to any amounts due for your Services and any other amounts due under this Agreement or any applicable Promotion Agreement, you agree to pay the fees listed below ("Fees") if and when applicable. DISH Network may change these Fees, increase or decrease these Fees, or impose additional Fees at any time upon notice to you. Discounts on certain monthly fees may be available from time to time if you subscribe to certain programming packages and/or use certain Equipment. Additional fees may apply for non-standard installations or if you upgrade your Equipment after installation.

Appendix

Residential Customer Agreement

Monthly Fees		
Type of Fee	Amount	Description of When Fee Applies
Additional Receiver Fee	\$7.00	You have more than 1 receiver on your account. Per additional high definition (HD) receiver.
	\$5.00	You have more than 1 receiver on your account. Per additional standard definition (SD) receiver.
Alaska Dish 500AK Upgrade Fee	\$4.99	You receive Services in Alaska.
DishHOME Protection Plan	\$5.99	You participate in the DishHOME Protection Plan.
DISH Pause	\$5.00	You are eligible for and participate in DISH Pause.
DVR Service Fee	\$5.98	You purchase or lease a digital video recording receiver and you do not subscribe to a "with DVR" programming package.
Hawaii Dish 500H Upgrade Fee	\$4.99	You receive Services in Hawaii.
TV2 Receiver Connection Fee	\$5.00	You purchase or lease a dual-tuner receiver and it is not connected to a phone line and/or a broadband home network.
Service Access Fee	\$6.00	You do not subscribe to applicable required minimum programming.

Transactional Fees		
Type of Fee	Amount	Description of When Fee Applies
Check by Phone Fee	\$9.99	You make a personal check payment using our automated phone system or through our customer service center.
External Hard Drive Activation Fee	\$39.99	One time fee charged if you have a ViP receiver and you choose to connect an external hard drive to that receiver.
Late Payment Fee	\$5.00	You do not pay your bill in full on or before its due date (unless you are receiving Services pursuant to a Pre-Pay Promotion).
Live Operator Payment Fee	\$5.00	You make a debit or credit card payment through a DISH Network customer service representative (unless you are receiving Services pursuant to a Pre-Pay Promotion).

Residential Customer Agreement

Transactional Fees		
Type of Fee	Amount	Description of When Fee Applies
Mobile Fee	\$20.00	You would like the ability to order pay-per-view Services at any time without a phone line connected to your receiver. Charged annually.
Pay-Per-View Automated Fee	\$1.50	You use our automated telephone system to order DISH Network pay-per-view Services.
Pay-Per-View Live Operator Fee	\$5.00	You call one of our customer service centers to order DISH Network pay-per-view Services.
Restart Fee	\$25.00	We disconnect your Services for any reason and you wish to restart such Services (unless you are receiving Services pursuant to a Pre-Pay Promotion).
	\$5.00	If you are a Pre-Pay Promotion customer, we disconnect your Services for any reason, and you wish to restart such Services.
Returned Payment Fee	\$10.00	You make an EFT or check payment to DISH Network and it is subsequently returned.
Shipping and Handling Fee	\$14.95	DISH Network delivers hardware to you via regular delivery. (An additional \$10 Extended Delivery Fee applies to Alaska, Hawaii, Puerto Rico, or the U.S. Virgin Islands.)
	\$5.95	DISH Network delivers a remote control to you via regular delivery. (An additional \$10 Extended Delivery Fee applies to Alaska, Hawaii, Puerto Rico, or the U.S. Virgin Islands.)
	\$8.95	DISH Network delivers an accessory to you via regular delivery. (An additional \$7 Extended Delivery Fee applies to Alaska, Hawaii, Puerto Rico, or the U.S. Virgin Islands.)
	\$24.95	DISH Network delivers an item to you via overnight delivery (not available in Alaska, Hawaii, Puerto Rico, or the U.S. Virgin Islands).
Smart Card Replacement Fee	\$50.00	We replace your Smart Card because it was lost, damaged, defective or stolen, as long as there is no evidence of unauthorized tampering or modification.
Statement Request Fee	\$2.00	You request a copy of a previous billing statement.
Transaction Fee	\$5.00	You change your programming selection (but not regarding adult programming).
	\$10.00	Changes to your programming selection include adult programming.

Appendix

Residential Customer Agreement

E. Restarting your Services. If you do not pay your bill in full by its due date, or you at any time otherwise fail, neglect or refuse to make timely payment for your Services, we may disconnect your Services, and in such event we will be wholly relieved from any and all of our duties and obligations under this Agreement. If your Services are disconnected for non-payment or any other reason, DISH Network may require that you pay, and you agree to pay, before we reconnect your Services, all past due charges, a Restart Fee, a deposit equal to a minimum of two months' service charges (or in the case of a restart under a Pre-Pay Promotion, one month's service charges), and all outstanding balances accrued through the date of such disconnection. If your Services are disconnected for non-payment or any other reason, you will no longer be eligible, even if you pay to restart your Service, to receive any remaining credits or promotional pricing that you would have been eligible to receive had your Services not been disconnected. Unless required by applicable law, deposits will not be held segregated from other funds and will not earn or accrue interest. Promotional pricing is valid only at the time of installation.

F. Attorneys' Fees/Collections. If we use an attorney or a collection agency to collect any money you owe us or to assert any other right that we may have against you, including without limitation, any breach of any agreement you may have with DISH Network or one of our affiliates, you agree to pay the reasonable costs of such collection or other action. These costs may include, without limitation, the costs of a collection agency, reasonable attorneys' fees and court costs. If you believe you have been billed in error or you would like to make any other requests for a billing statement credit, you must contact our customer service center by telephone or in writing within twenty (20) days after the date you receive the bill for which you are seeking correction. Failure to timely notify us of a dispute will constitute your acceptance of the corresponding bill. You must pay undisputed portions of any billing statement before the next billing statement is issued or you must pay a Late Payment Fee. All payments for Services must be made directly by you to us, unless we authorize otherwise; for example, DISH Network shall have no obligation to provide Services for which payment is made by you to a third party or payment is made by a third party on your behalf.

G. Billing Agent Payments. Different or other payment and billing terms, conditions, options and fees may apply when billing is provided through a third-party billing agent, including without limitation, a local telephone company.

3. CANCELLATION OF SERVICE

A. Continuation of Services. Your subscription to Services will automatically renew until you cancel your Services or we otherwise disconnect your Services, in each case as provided herein or in any applicable Promotion Agreement.

B. Cancellation Policies. You may cancel your Services for any reason at any time by notifying us at the phone number, e-mail address or mailing address set forth at the top of the Agreement. Please be aware that certain promotions have an optional or mandatory term commitment period and if you cancel your Services prior to the expiration of an applicable optional or mandatory term commitment period, certain early termination or cancellation fees may apply.

C. Disconnection of Services. In addition to all other rights that DISH Network may have to disconnect your Services, DISH Network may disconnect your Services at any time without notifying you if: (i) you fail to pay any bill in full when it is due; (ii) we receive confirmation that you have received Services, or any part of the Services, without paying for them; (iii) you otherwise violate the terms and conditions of this Agreement or any applicable Promotion Agreement; (iv) you transfer, encumber or relocate any leased Equipment (unless you relocate such Equipment as part of a residential move into an area within which you can permissibly continue to receive such Services); (v) you assign or attempt to assign any of your rights, duties or obligations under this Agreement or any applicable Promotion Agreement; (vi) you are receiving Services through a third-party billing agent and become ineligible to receive applicable services provided by such third-party billing agent; or (vii) you commence any act or filing of bankruptcy or bankruptcy proceedings are commenced against you.

D. No Credits. If your Services are cancelled or disconnected for any reason, you still must pay all outstanding balances accrued, including without limitation, any applicable fees. Except in certain limited circumstances, charges for Services, once charged to your account, are non-refundable, and no refunds or credits will be provided in connection with the cancellation of Services. If you received a discounted price due to a promotion, and you cancel prior to any applicable expiration of that promotion, you are not entitled to any refund or credit for the unused portions of such discounted price. If you received a discounted price in exchange for your agreement to pay for your Services on a multi-month basis, and you cancel your Services prior to the expiration of your multi-month subscription, you are not entitled to any refund or credit for the unused portions of your multi-month subscription.

4. EQUIPMENT

A. Equipment. In order to receive Services you must purchase or lease certain reception equipment consisting primarily of a DISH Network compatible satellite receiver(s) and applicable Smart Card(s), remote control(s), satellite antenna(s), and low noise block converter(s) with integrated feed(s) (collectively, "Equipment").

B. Additional Tuners and Receivers. We may choose to allow you to place additional receivers on your account. If we allow you to do so, each additional receiver will be authorized to receive the same Services as your initial receiver, subject to the limitations of your television equipment. All of your receivers must be located at the same residence and continuously connected to the same land-based telephone line and/or broadband home network. If you wish to receive Services at two different residential locations, you must open a separate account for each location, unless otherwise specifically authorized by DISH Network. You may not directly or indirectly use a single account for the purpose of authorizing Services for multiple DISH Network receivers that are not all located in the same residence and connected to the same land-based telephone line and/or broadband home network. If we later determine that you did, we may disconnect your Services and, in addition to all other applicable fees, you agree to pay us the difference between the amounts actually received by us and the full retail price for the Services authorized for each DISH Network receiver on your account.

Residential Customer Agreement

C. **Smart Cards.** Receiver(s) are equipped with a conditional access card ("Smart Card") inserted into a slot or otherwise installed in such receiver. Not all receivers with a Smart Card slot require a Smart Card for proper authorization. Smart Cards remain the property of DISH Network at all times and must be returned to us upon our request. Smart Cards are not transferable. Your Smart Card will only work in the DISH Network receiver to which it was assigned by DISH Network. If you report to our customer service center that your Smart Card has been lost, damaged, defective or stolen, we will replace it, unless there is evidence of unauthorized tampering or modification, and a Smart Card Replacement Fee will apply. In addition, in order to minimize downtime for your Equipment, DISH Network will, upon your request, deliver a replacement Smart Card to you via overnight delivery, in which case an Overnight Delivery Fee will apply.

D. **PVR/DVR.** DISH Network's personal video recorder/digital video recorder ("PVR/DVR") products allow you to record programming in digital format. Total available recording time varies depending on your receiver and the nature of the programs being recorded. DISH Network does not guarantee access to or recording of any particular programming, or that any such programming will not be deleted from your PVR/DVR product. Most programming is the copyrighted material of the third party that supplies it; is protected by copyright and other applicable laws; and may not be reproduced, published, broadcast, rewritten, or redistributed without the written permission of the third party that supplied it (except as permitted by the "fair use" provisions of the U.S. copyright laws).

E. **Telephone/Broadband Connection.** To optimize the operation of your Equipment, you must continuously connect each DISH Network receiver on your account to the same land-based telephone line and/or a broadband home network. Failure to connect each receiver to the same land-based telephone line and/or a broadband home network may result in interruption or disconnection of Services. We may charge you a TV2 Receiver Connection Fee for each dual-tuner receiver that is not connected to the same land-based telephone line and/or a broadband home network.

F. **Receiver Alterations.** DISH Network may, through periodic downloads, alter the software, features and/or functionality in your DISH Network receivers; provide data and content to PVR/DVR products; store and remove data and content on the hard drives of PVR/DVR products; and send electronic counter-measures to your DISH Network receivers. DISH Network will use commercially reasonable efforts to schedule these downloads to minimize interference with or interruption to your Services, but shall have no liability to you for any interruptions in Services arising out of or related to such downloads. DISH Network may from time to time cease supporting one or more DISH Network receiver models.

G. **Proprietary Components and Software.** DISH Network receivers and Smart Cards contain components and software that are proprietary to DISH Network and its licensors. You agree that you will not try to reverse-engineer, decompile or disassemble, nor will you tamper with or modify, any software or hardware contained within any receiver or Smart Card. Such actions are strictly prohibited and may result in the termination of this Agreement, disconnection of your Services and/or legal action.

H. **Software License.** You are licensed to use the software provided in your DISH Network receiver(s), as updated by DISH Network, its licensors and/or its suppliers from time to time, solely in executable code form, solely in conjunction with lawful operation of the DISH Network receiver(s) that you purchased or leased, and solely for the purposes permitted under this Agreement. You may not copy, modify or transfer any software provided in your DISH Network receiver(s), or any copy of such software, in whole or in part. You may not reverse-engineer, disassemble, decompile or translate such software, or otherwise attempt to derive its source code, except to the extent allowed under any applicable laws. You may not rent, lease, load, resell for profit or distribute any software provided in your DISH Network receiver(s), or any part thereof. Such software is licensed, not sold, to you for use only under the terms and conditions of this license, and DISH Network, its licensors and its suppliers reserve all rights not expressly granted to you. Except as stated above, this license does not grant to you any intellectual property rights in the software provided in your DISH Network receiver(s). Any attempt to transfer any of the rights, duties or obligations of this license is null and void. If you breach any term or condition of this license, this license will automatically terminate.

I. **Stolen Equipment.** If any of your Equipment is stolen or otherwise removed from your premises without your authorization, you must notify our customer service center by telephone or in writing immediately, but in any event not later than three (3) business days after such removal, to avoid liability for payment for unauthorized use of your Equipment. You will not be liable for unauthorized use that occurs after we have received your notification.

5. LEASED EQUIPMENT

A. **Lease Terms.** We may choose to lease certain Equipment to subscribers. Unless otherwise specified in an applicable Promotion Agreement(s), such Equipment (including without limitation, the LNBFs, but not the satellite antenna), shall at all times remain the sole and exclusive property of DISH Network, and we may provide or replace leased Equipment with new or reconditioned Equipment at any time, and upon cancellation or disconnection of your Services, remove or require the return of such Equipment. No leased Equipment provided to you by DISH Network shall be deemed fixtures or part of your real property. We may make such filings and recordings that we may consider necessary to evidence our ownership rights in such Equipment, and you agree to execute any and all documents that we may consider necessary for us to make such filings. Our ownership of such Equipment may be displayed by notice contained on it. You have no right at any time to pledge, sell, mortgage, otherwise encumber, give away, remove, relocate, alter or tamper with such Equipment, or to tamper with or alter any notice of our ownership on such Equipment. Any reinstallation, return, or change in the location of such Equipment must be performed by DISH Network at our then-current service rates. You shall not attach any electrical or other devices to, or in any way alter, any such Equipment without our prior written consent. You are responsible for preventing the loss or destruction of leased Equipment and we recommend that such Equipment be covered by your homeowners, renters or other insurance policy.

B. **Return of Leased Equipment.** Upon cancellation or disconnection of your Services, you must contact our customer service center or call the telephone number set forth in any applicable Promotion Agreement to schedule the return of your leased Equipment. If you do not return such Equipment undamaged and in working order, normal

Appendix

Residential Customer Agreement

wear and tear excepted, you are responsible and must pay us certain charges as described in any applicable Promotion Agreement.

C. Defects and Damages. You must notify us immediately of any defect in, damage to, or accident involving your leased Equipment. All maintenance and repair of such Equipment must be performed by us or our designee(s). DISH Network may charge you for any repairs that are necessitated by any damage to, or misuse of, such Equipment.

6. TRANSFER OF ACCOUNT, SERVICES OR EQUIPMENT

DISH Network may sell, assign or transfer your account to a third party without notifying you. You may not assign or transfer your Services without our written consent, which will not be unreasonably withheld. We may, however, refuse to allow you to assign or transfer your Services if you lease your Equipment or your account has an outstanding balance.

7. LIMITATION OF OUR LIABILITY

A. INTERRUPTIONS AND DELAYS. NEITHER WE NOR OUR THIRD-PARTY BILLING AGENTS, NOR ANY OF OUR OR THEIR AFFILIATES, WILL BE LIABLE FOR ANY INTERRUPTIONS IN ANY SERVICE OR FOR ANY DELAY OR FAILURE TO PERFORM, INCLUDING WITHOUT LIMITATION: IF SUCH INTERRUPTION, DELAY OR FAILURE TO PERFORM ARISES IN CONNECTION WITH THE TERMINATION OR SUSPENSION OF DISH NETWORK'S ACCESS TO ALL OR ANY PORTION OF SERVICES; THE RELOCATION OF ALL OR ANY PORTION OF THE SERVICES TO DIFFERENT SATELLITE(S); A CHANGE IN THE FEATURES AVAILABLE WITH YOUR EQUIPMENT; ANY SOFTWARE OR OTHER DOWNLOADS INITIATED BY US; OR ANY ACTS OF GOD, FIRES, EARTHQUAKES, FLOODS, POWER OR TECHNICAL FAILURE, SATELLITE OR UPLINK FAILURE, ACTS OF ANY GOVERNMENTAL BODY OR ANY OTHER CAUSE BEYOND OUR REASONABLE CONTROL.

B. ALTERATIONS TO EQUIPMENT. NONE OF DISH NETWORK, ECHOSTAR OR OUR THIRD-PARTY BILLING AGENTS, OR ANY OF OUR OR THEIR AFFILIATES, WILL BE LIABLE FOR ANY ALTERATION TO ANY EQUIPMENT, INCLUDING WITHOUT LIMITATION, REMOVING OR DISABLING FEATURES (SUCH AS THE ABILITY TO ACCESS THE INTERNET VIA A RECEIVER).

C. LOSS OF RECORDED MATERIAL. NEITHER WE NOR OUR THIRD-PARTY BILLING AGENTS NOR ANY OF OUR OR THEIR AFFILIATES WILL BE LIABLE FOR ANY DAMAGE RESULTING FROM LOSS OF RECORDED MATERIAL OR THE PREVENTION OF RECORDING, INCLUDING WITHOUT LIMITATION, ANY LOSS OR PREVENTION OF RECORDING DUE TO ANY FAULT, FAILURE, DEFICIENCY OR DEFECT IN SERVICES OR EQUIPMENT.

D. NO WARRANTIES. EXCEPT AS EXPRESSLY PROVIDED TO THE CONTRARY BY APPLICABLE STATE LAW, NEITHER WE NOR OUR THIRD-PARTY BILLING AGENTS, NOR ANY OF OUR OR THEIR AFFILIATES, MAKE ANY WARRANTY, EITHER EXPRESSED OR IMPLIED, REGARDING YOUR DISH NETWORK EQUIPMENT OR ANY OTHER EQUIPMENT OR ANY SERVICES FURNISHED TO YOU. ALL SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY DISCLAIMED AND EXCLUDED.

E. CONTENT RESTRICTIONS. IT IS YOUR RESPONSIBILITY TO IMPOSE ANY PROGRAMMING, INTERNET OR OTHER CONTENT RESTRICTIONS ON YOURSELF, MEMBERS OF YOUR FAMILY AND HOUSEHOLD, AND GUESTS, AS YOU DEEM APPROPRIATE. NONE OF DISH NETWORK, ECHOSTAR, OUR THIRD-PARTY BILLING AGENTS, OR OUR AND THEIR AFFILIATES SHALL HAVE ANY LIABILITY TO ANYONE DUE TO, OR BASED UPON, ANY CONTENT (INCLUDING WITHOUT LIMITATION, ANY INACCURACIES, ERRORS IN, OR OMISSIONS FROM SUCH CONTENT): (i) CONTAINED IN ANY OF THE SERVICES FURNISHED TO YOU; OR (ii) ACCESSED USING THE SERVICES OR EQUIPMENT FURNISHED TO YOU.

F. DAMAGES LIMITATION. NEITHER WE NOR OUR THIRD-PARTY BILLING AGENTS, NOR ANY OF OUR OR THEIR AFFILIATES, SHALL HAVE ANY LIABILITY WHATSOEVER FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR RELATING TO: DISH NETWORK EQUIPMENT OR ANY OTHER EQUIPMENT; OUR FURNISHING OR FAILURE TO FURNISH ANY SERVICES OR EQUIPMENT TO YOU; OR ANY FAULT, FAILURE, DEFICIENCY OR DEFECT IN SERVICES OR EQUIPMENT FURNISHED TO YOU.

8. WARNING AGAINST PIRACY AND INFRINGEMENT

A. Piracy. Receiving any portion of the Services without paying for them and/or any direct or indirect act or attempted act to engage or assist in any unauthorized interception or reception of any portion of the Services is a violation of various U.S. federal and state laws and of this Agreement. The penalties for violating such laws can include imprisonment and civil damage awards of up to \$110,000 per violation.

B. Infringement. Title 47, Section 605(e)4 of the United States Code (U.S.C.) makes it a federal crime to modify Equipment to receive encrypted (scrambled) television programming without payment of required subscriptions. Conviction can result in a fine of up to \$500,000 and imprisonment for five years, or both. Any person who procures this receiver that has been so modified is an accessory to that offense and may be punished in the same manner.

This Equipment may incorporate copyright protection technology that is protected by U.S. patents, patent applications and/or other intellectual property rights. Use of such copyright protection technology is intended for home and other limited pay-per-view uses only, unless otherwise authorized. Reverse engineering or disassembly is prohibited.

Residential Customer Agreement

9. GENERAL

A. **Notice.** Any notice required or permitted to be given by us under this Agreement may be provided via the mail, on your bill, as a bill insert, via broadcast on a television channel, through publication on the website set forth at the top of this Agreement, by telephone, or by any other reasonable means. If we send you notice by mail, on your bill or as a bill insert, it will be considered given the day after it is deposited in the U.S. mail, addressed to you at your then-current billing address in our records. If we send you notice via broadcast on a television channel or through publication on the website set forth at the top of this Agreement, it will be considered given when first broadcast or published. If we send you notice by telephone, it will be considered given when personally delivered to you or when left as a message at your then-current phone number in our records. Unless otherwise specified in this Agreement, any notice required or permitted to be given by you under this Agreement shall be in writing and shall be sent by first-class mail addressed to us at the mailing address set forth at the top of this Agreement, and shall be deemed given when received by us at such mailing address.

B. **Physical Address/Change of Address.** When setting up your DISH Network account, you must provide us with the physical address where your Equipment will be located and your Services will be provided. A post office box does not meet this requirement. You must give us immediate notice of any change of name, mailing address, telephone number, or physical address where your Equipment is located. You may do this by notifying our customer service center by telephone or in writing at the phone number, mailing address, or e-mail address set forth at the top of this Agreement.

C. **Online Account Information.** If you have an online account with us, you are responsible for maintaining the confidentiality of your account username and password and for all activities that occur under your account username and/or password. You must: (i) keep your account username and password confidential and not share them with anyone else; and (ii) immediately notify us of any unauthorized use of your password and/or account username or other breach of security.

D. **Third-Party Billing Agents.** We may enter into relationships with third parties to provide billing and other services on our behalf, in which case the terms and conditions of this Agreement shall apply to such third parties as applicable under the circumstances. Additional terms and conditions imposed by our third-party billing agents may apply. For example and without limitation: (i) late fees imposed by our third-party billing agents may be administered according to our third-party billing agent's billing procedures and applicable state tariffs and regulations; (ii) our third-party billing agents may require that you to pay all past due charges for Services, a restart fee, and/or a prepayment before we reconnect your Services; and (iii) other services provided by our third-party billing agents, including without limitation, local telephone service, may need to be restored before DISH Network Services can be restored, and a restoral fee and/or deposit may be required to restore third-party billing agent services. Partial payments on third-party billing agent bills may be applied first to the balance due for other services billed on your third-party billing agent bill, including without limitation, local telephone service, according to the third-party billing agent's billing procedures and applicable state statutes and regulations. Please contact your third-party billing agent for details. Failure to pay all or any part of your third-party billing agent bill may result in disconnection of Services.

E. **Credit Checks.** You authorize DISH Network to investigate your financial responsibility and creditworthiness, including without limitation, acquiring credit reports and histories, and to report any payment defaults to credit reporting agencies. Under the Fair Credit Reporting Act, you have the right to notify DISH Network if you believe we have reported inaccurate information about your account to any credit reporting agency. Please include in any such notice the specific item of dispute and why you believe the information reported is in error.

F. **Applicable Law.** This Agreement, including without limitation, all matters relating to its validity, construction, performance and enforcement, and any claim, complaint or dispute arising out of or related to this Agreement, the Services or the Equipment shall be governed by the laws and regulations of the State of Colorado without giving effect to its conflict of law provisions. This Agreement is subject to amendment, modification or termination if required by such laws or regulations. If any provision in this Agreement is declared to be illegal or in conflict with any law or regulation, that provision will be considered modified to the minimum extent necessary to make such provision legal and no longer in conflict with such law or regulation, without affecting the validity of any other provisions.

G. **Remedies Cumulative.** The rights and remedies provided under this Agreement to DISH Network in case of your default or breach of this Agreement are cumulative and without prejudice to any other rights and remedies that DISH Network may have by reason of such default or breach at law, in equity, under contract or otherwise (all of which are expressly reserved).

H. **Other.** No salesperson, installer, customer service representative, authorized retailer, or other similarly situated individual is authorized to change or override this Agreement. DISH Network may, however, change this Agreement at any time and will notify you if that occurs. The terms and conditions of this Agreement that either are expressly stated to survive or by their nature would logically be expected to survive its expiration or termination will continue thereafter. This Agreement is in addition to any other written agreement(s), if any, between you and DISH Network, including without limitation, any applicable Promotion Agreement, and except as provided to the contrary herein, all such written agreements shall remain in full force and effect. Except as expressly set forth in this Agreement to the contrary, this Agreement replaces and supersedes any and all prior DISH Network Residential Customer Agreements in their entirety, and such prior DISH Network Residential Customer Agreements shall be of no further force or effect whatsoever. In the event of any ambiguity between this Agreement and any applicable Promotion Agreement, DISH Network shall have the sole and exclusive authority to interpret and/or make a final determination concerning any issue arising from such ambiguity.

FCC COMPLIANCE



The following text is extracted from Federal Communications Commission (FCC) regulations, as of this Guide's publication date. Contact the FCC (see following) or a library for complete text of the regulations.

Telephone Communication

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the back panel of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant, such as RJ-11. See installation instructions for details.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact DISH Network at 1-800-333-DISH (3474). If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

There are no user serviceable parts inside.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

Compliance Information Statement

EchoStar Technologies Corporation, 94 Inverness Terrace East, Englewood CO., (303) 706-4000, declares that: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Signal Strength Present at the Television

The software-based attenuator within the satellite receiver will limit the signal present at your television set to below the FCC signal strength limit of 75.6dBuV. If you choose not to enable the attenuator, you must ensure that the signal strength present at the TV set does not exceed 75.6dBuV.

Connecting to an Over-the-Air Antenna

In order to receive local broadcast channels, you may wish to install an over-the-air antenna into your over-the-air tuner module or TV distribution equipment. There are many devices that allow you to connect your antenna to your in-home distribution system such as splitters and amplifiers. You must be careful to meet certain FCC regulations with respect to the isolation between the antenna port and the network port of your system. It is recommended that you purchase a splitter or amplifier with the correctly specified isolation from your local satellite television retailer.



A

- Account Information 4
- Address, Remote
 - Changing 74
 - Checking 75
- Adult Content, Hiding 49
- All Episodes 64
- Antenna
 - Adjusting 76
 - Over-the-Air 116
 - Remote Control 17
- Attenuator 77
- Automatic Timer 68

B

- Back Button 57
- Back Panel 21
- Batteries, Remote Control 17
- Broadband Internet Connection 8, 113
- Browse Banner 28
 - Troubleshooting 130

C

- Caller ID 95
 - History 96
 - Screens 95
 - Setting Up 95
 - Troubleshooting 135
- Canceling a Procedure 23
- Changing Channels 26
- Changing Languages 98
 - Troubleshooting 134
- Channel Locks 48
- Channels
 - DishHD 98
 - Local Satellite Channels 98
- Check Switch 122
- Closed Captioning 99
- Closing Menus 22
- Combination Devices 80
- Connections, Back Panel 21
- Controlling Other Components 78
- Controls and Indicators, Front Panel 21
- Customer Service 54

D

- Daily Schedule 65
- Defaults, Reset to Factory 101
- Deleting a Timer 70
- Descriptive Video 98
- Device Codes 81, 83
 - DVD Player 142

- DVD/VCR Combo 144
 - Tuner/Amplifier 141
 - TV 137
 - TV/DVD Combo 144
 - TV/DVD/Tuner Combo 144
 - TV/DVD/VCR Combo 144
 - TV/VCR Combo 144
 - TV/VCR/Tuner Combo 144
 - VCR 139

- Device Codes Scan 82
- Diagnostics 121
- Discrete Power On and Off 89
- Dish Antenna 110
- DISH Network Account 4
- DISH Network Logo, Moving 8
- DISH On Demand 7, 34
 - Ordering 34
 - Reviewing Orders 35
- DishCOMM
 - Connecting via 113
 - Considerations 114
 - Creating a Network via 113
 - Modem 114
 - testing 114
- DishHOME Interactive TV 7, 54
- DishPASS 64, 69
- Dolby Surround Sound 100
- Dual Mode 12
 - Recording Events without Record Plus 61
 - Recording With Record Plus 60
 - Using Record Plus 58
- DVD Player Codes 142
- DVD/VCR Combo Codes 144

F

- Fast Forwarding 57
- Favorites Lists 40
 - Creating or Changing 41
 - Naming 41
 - Troubleshooting 132
 - Using 41
- Finding a Program to Watch 5
- Frame-By-Frame 57
- Front Panel 21
 - Locking 50
- FWD Button 57

G

- Grouping Recording Programs 62
- Guide Display
 - Changing 97
 - Channel Display Preferences 97

H

- Hiding Adult Content 49
- History
 - Caller ID 96
 - Purchase 35
- HomePlug testing 114

I

- Improving Receiver Control 74
- Inactivity Standby 102
- Internet Connection 8, 113

L

- Languages, Changing 98
- Learning from Another Remote 84
- Limited Mode 78
- List of Choices in Menus 22
- Local Satellite Channels 118
- Locks 44
 - Channel Locks 48
 - Front Panel 50
 - Hiding Adult Content 49
 - Password 51
 - Pay-Per-View Channels 49
 - Ratings Locks 45
 - Receiver 51
 - Troubleshooting 136
- Low Battery Warning 17

M

- Manual Timer 68
- Maximum Recorded Events 65
- Menus 22
 - Canceling a Procedure 23
 - Highlighting Options 22
 - List of Choices 22
 - Open and Close 22
 - Selecting Options 22
 - Troubleshooting 136
 - Using 22
- Modes
 - Dual 12
 - Mode Light 13, 14
 - Single 12, 14
 - Switching 15
- Modulator Setup 92
- Movies & More 34

N

- Nearby TV 3, 12, 16
 - Connecting to TV 104
 - Display in HD 106
 - No Picture 105
 - YPbPr Connections 105

New Episodes 64

O

Opening Menus 22

Ordering a Pay-Per-View 34

Ordering Your Program Packages 4

Over-the-Air

TV Broadcasts 119

Over-the-Air Antenna 116

Channel Scanning 117

Peaking 118

Transmit Channel Numbers 119

Over-the-Air Channels 40

P

Password

Creating or Changing 51

Pause Button 57

Pausing a Program 56

Pausing Live TV 6

Pay-Per-View 7, 34

Locks 49

Ordering 34

Reviewing Orders 35

Troubleshooting 136

Phone Line 111

Troubleshooting 135

Phone System Setup 112

Picture-In-Picture 31

PIP 32

Playing a Recorded Program 58

Point Dish 122

Program Guide 26

Changing the Display 97

Channel Display Preferences 97

Troubleshooting 130

Programming the Recover Button for Remote Control 2 88

Programs

DISH On Demand 34

Movies & More 34

Pay-Per-View 34

Reviewing Orders 35

R

Rain and Snow Fade 7

Ratings Locks 45

Receiver

Back Panel 21

Front Panel 21

Updates 101

Record Link 59, 64

Record Plus 58, 60, 61

Recording

Grouping and Sorting 62

Live Program 58

Maximum # Recorded Events 65

Options 62

Playing Back a Recorded Program 58

Receiver is Off 66

Single Mode 59

While Watching Different Programs 59

With Record Plus 60

Without Record Plus 61

Recover Button 88

Programming 88

Removing Channel Programming 89

Using 88

Remote Antenna 76

Remote Battery Low 17

Remote Control 15

Antenna 17, 76

AUX Mode 86

Batteries 17

Buttons, Receiver Control 18

Buttons, TV Control 19

Buttons, VCR Control 20

Changing the Address 74

Checking Device Codes 83

Checking the Address 75

Combination Devices 80

Confirming Operation 75

Controlling Other Components 78

Device Code Tables 81

Device Codes Scan 82

Learning Commands 84

Limited Mode 78

Low Battery Warning 17

Modes 78

Programming the Recover Button for Remote Control 2 88

Programming to Control a Second Satellite Receiver 87

Removing Recover Button Channel Programming 89

Replacement 24

SAT Auto-Tune 78

Switching Between TV and Device Volume Control 86

Troubleshooting 128

Types (TV1 & TV2) 16

UHF Attenuator 77

UHF Pro 16

Using Recover Button 88

Remote Control 1 (Green) 3, 12

Remote Control 2 74

Recover Button 88

Removing Recover Button Channel Programming 89

Using Recover Button 88

Remote Control 2 (Blue) 3, 12

Remote Control, Replacement 104

Remote TV 3, 12, 14, 16, 107

Connecting a VCR 115

Replacement Remote Control (TV1 UHF Pro) 24

Reset to Factory Defaults 101

Resetting Your Receiver 121

Reversing 57

S

SAT Auto-Tune 78

Satellite Channels, Local 118

Satellite TV Reception 7

Second Satellite Receiver 87

Shared View 92

Single and Dual Modes

Favorites Lists 15

Recording 15

Switching 15

Single Mode 12, 14

Picture-In-Picture 31

Recording 59

Shared View 92

Skip Back Button 57

Skip FWD Button 57

Skipped Timers 66

Skipping 57

Slow Motion and Frame-By-Frame 57

Solar Interference 8

Sorting Recorded Programs 62

Standby, Inactivity 102

T

Themes 31

Timers and Recordings 64, 66

Automatic Timers 68

Daily Schedule 65, 67

Deleting a Timer 70

DishPASS Timer 69

Manual Timers 68

Maximum Recorded Events 65

Special Considerations When Using Timers 67

Timer Frequency 64

Timer Options 65

Timer Priorities 64

Timer Symbol 66
Timer Types 64
Timers List 65, 67
Why Timers are Skipped 66
Transmit Channel Numbers 119
Troubleshooting 121, 124
Browse Banner 130
Caller ID 135
Changing Languages 134
Diagnostics 121
Favorites Lists 132
Hearing a Program 134
Locks 136
Menus 136
Nearby TV 105
Pay-Per-View 136
Phone Line 135
Point Dish and Check Switch 122
Program Guide 130
Remote Control 128
Resetting Your Receiver 121
Watching a Program 131
Tuner/Amplifier Codes 141
TV Codes 137
TV/DVD Combo Codes 144
TV/DVD/Tuner Combo Codes 144
TV/DVD/VCR Combo Codes 144
TV/VCR Combo Codes 144
TV/VCR/Tuner Combo Codes 144

U
UHF Attenuator Installation 77
Unlocking Pay-Per-View Channels 49
Unlocking the Front Panel 50

Unlocking Your Receiver 51
Updates 101
Using DishCOMM 113
Using the Menus 22

V
VCR Codes 139
VCR Connection 115
Virtual Keyboard 23
Volume Control 86

W
Watch TV 5

Y
YPbPr Connections 105



Notes

Receiver Information

Write the following information in the spaces provided below. You may need to provide this information if you call the Service Center. To get the Conditional Access Numbers, display the **Important System Information** menu (see *Ordering Your Programming Packages*).

Purchase Location Name:	
Purchase Location Telephone Number:	
Receiver Serial Number:	
Receiver Conditional Access Number	
Smart Card Conditional Access Number:	

Remote Control Settings

	Remote Control 1	Remote Control 2
Remote Control Address (SAT Mode)		
TV Code (TV Mode)		
DVD or VCR Code (DVD Mode)		
Auxiliary Device Code (AUX Mode)		

TV Input/Channel Settings

	TV1	TV2
TV Input/Channel		